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Ohio
Labor
Market
Information

Labor Market Review

1988 Annual Summary

Summary. In 1988, 100,400 jobs were added to Ohio nonagricultural wage and salary payrolls. The growth rate, at 2.2 percent this year, was .2 percent below the 1987 growth rate. The construction industry reported the greatest rate of increase, although the largest absolute gains occurred in services and retail trade—36,600 and 28,200, respectively. Manufacturing employment rose .4 percent over the year, with improvements in both durable and nondurable goods. Annual average employment in durable goods increased for the first time in four years, as gains in primary metals, nonelectrical machinery, and lumber and wood products more than offset losses in transportation equipment and rubber products. In nondurable goods, increases were reported in chemicals and printing and publishing; losses were reported in the manufacture of rubber products. (See page 4, top.)

Nearly two-thirds of the expansion in Ohio jobs during the post-recessionary period, 1983 to 1988, has occurred in services and retail trade. The table, below, shows the structural shift from the production of goods to the rendering of services in the Ohio and U.S. economies. Slight improvements in manufacturing during 1988 failed to change this pattern. Employment shares in services, retail trade, and finance, insurance, and real estate expanded during the 1979-1983 recession, and have continued to expand through 1988. In manufacturing, transportation and public utilities, and government, however, employment shares have continued to drop off since 1979.

Percent of Employment in Nonagricultural Divisions
Ohio and U.S., 1979, 1983, and 1988

Industry	Ohio			U.S.		
	1979	1983	1988	1979	1983	1988
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0
Goods Producing	35.6	29.9	27.9	29.5	25.9	24.1
Mining	.7	.7	.4	1.1	1.1	.7
Construction	4.1	3.2	3.9	5.0	4.4	5.0
Manufacturing	30.8	26.0	23.6	23.4	20.4	18.4
Service Producing	64.4	70.1	72.1	70.5	74.1	75.9
Transportation and Public Utilities	5.2	4.9	4.5	5.7	5.5	5.3
Wholesale Trade	5.2	5.4	5.4	5.8	5.8	5.8
Retail Trade	16.5	17.4	18.7	16.7	17.3	18.1
Finance, Insurance and Real Estate	4.5	5.1	5.3	5.5	6.1	6.3
Services	18.0	21.3	23.2	19.1	21.8	24.0
Government	15.0	16.0	14.9	17.8	17.6	16.4

Labor Force. According to the household survey, Ohio's civilian labor force reached a new all-time high in 1988—5,328,000—up 1.4 percent from 1987. (See table, page 2.)

Ohio Bureau of Employment Services
Richard F. Celeste, Governor   Ellen O'Brien Saunders, Administrator

Total Employment. Annual average total employment in the State rose to 5,008,000 in 1988, an increase of 121,000 or 2.5 percent over the previous year. U.S. employment advanced 2.2 percent over the year.

Civilian Labor Force Estimates for Ohio and the U.S.
(Employed and Unemployed in Thousands)

Ohio				Year	United States			
Civilian Labor Force	Employment	Unemployment Total	Unemployment Rate		Civilian Labor Force	Employment	Unemployment Total	Unemployment Rate
4,710	4,485	225	4.8	1974	91,949	86,794	5,156	5.6
4,723	4,294	429	9.1	1975	93,775	85,846	7,929	8.5
4,751	4,380	370	7.8	1976	96,158	88,752	7,406	7.7
4,833	4,520	312	6.5	1977	99,009	92,017	6,991	7.1
4,959	4,690	268	5.4	1978	102,251	96,048	6,202	6.1
5,059	4,760	299	5.9	1979	104,962	98,824	6,137	5.8
5,089	4,663	426	8.4	1980	106,940	99,303	7,637	7.1
5,100	4,608	492	9.6	1981	108,670	100,397	8,273	7.6
5,114	4,474	640	12.5	1982	110,204	99,526	10,678	9.7
5,099	4,478	621	12.2	1983	111,550	100,834	10,717	9.6
5,089	4,609	480	9.4	1984	113,544	105,005	8,539	7.5
5,135	4,680	455	8.9	1985	115,461	107,150	8,312	7.2
5,232	4,806	425	8.1	1986	117,834	109,597	8,237	7.0
5,254	4,887	367	7.0	1987	119,865	112,440	7,425	6.2
5,328	5,008	320	6.0	1988	121,669	114,968	6,701	5.5

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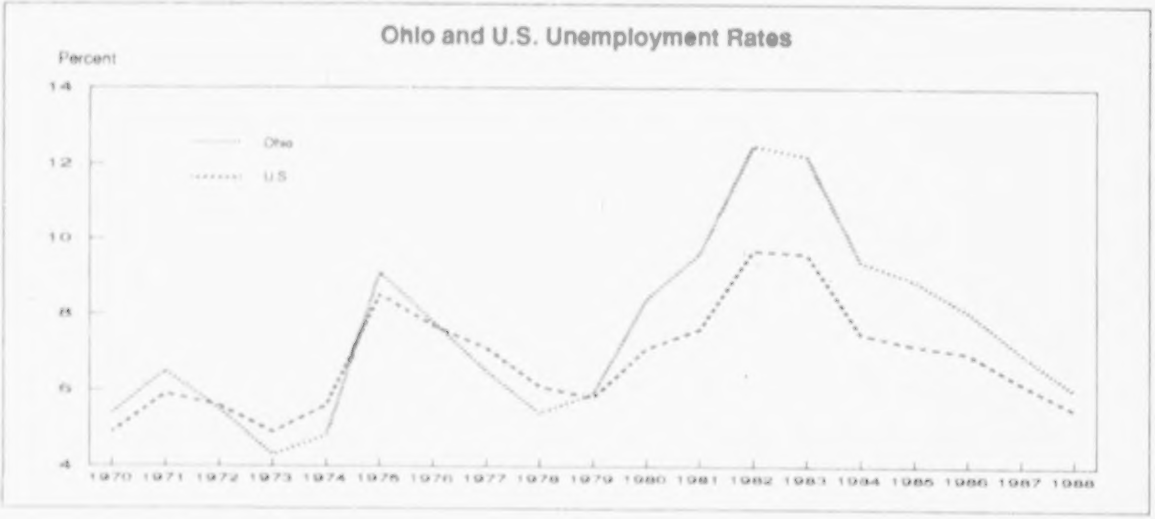
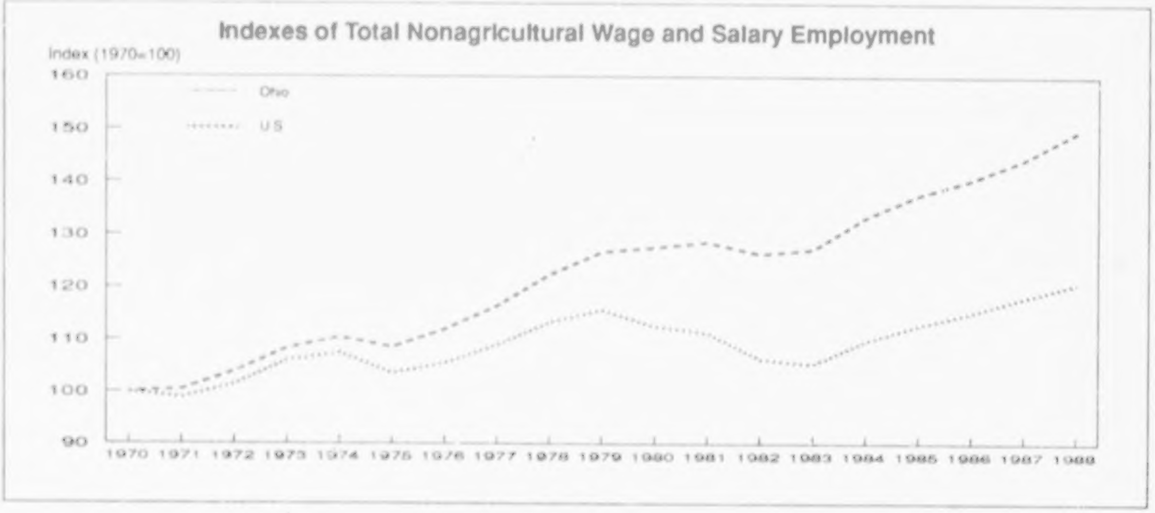
Unemployment. The number of people unemployed in Ohio averaged 320,000 in 1988, down from 367,000 in 1987. The unemployment rate, at 6.0 percent, the lowest annual average rate since 1979, was down from 7.0 percent in 1987. In the U.S., the rate dropped from 6.2 percent in 1987 to 5.5 percent in 1988.


Ohio and U.S. Unemployment Rates

Nonagricultural Wage and Salary Employment. Nonfarm payroll employment averaged 4,683,000 in 1988, 100,400 jobs and 2.2 percent above the level for 1987 and 198,000 jobs above the prerecession high in 1979. Expansion in services and retail trade contributed most to the improvement, although employment increased in all major industry divisions with the exception of mining. In durable-goods manufacturing, noteworthy increases in primary metals and nonelectrical machinery were nearly offset by a decline in transportation equipment. Among producers of nondurable goods, employment rose in chemicals and allied products and printing and publishing but declined in rubber and miscellaneous plastics products and food and kindred products. (See table, page 4, top.)


Indexes of Total Nonagricultural Wage and Salary Employment

Growth Industries. This year, business services led all Ohio industries in rate of growth—5.8 percent. (See table, page 4, bottom.) Food stores, transportation, except railroads, special trade contractors, and primary metal industries also reported significant expansion in 1988. Wholesale trade-durable goods, local

Ohio Employment Changes, 1987-1988

Industry	1988 Employment (in thousands)	Employment Change 1987-1988	Percent Change 1987-1988
TOTAL	4,683.0	100.4	2.2
Manufacturing	1,103.1	4.3	.4
Durable Goods	743.6	3.1	.4
Nondurable Goods	359.6	1.2	.3
Nonmanufacturing	3,579.8	96.1	2.8
Mining	19.5	-1.4	-6.9
Construction	183.6	7.1	4.0
Transportation and Public Utilities	211.5	3.7	1.8
Wholesale Trade	254.3	6.3	2.6
Retail Trade	876.5	28.2	3.3
Finance, Insurance, and Real Estate	249.8	6.1	2.5
Services	1,087.8	36.6	3.5
Government	696.8	9.5	1.4

Employment Gains and Losses
Ohio and U.S., 1987-1988

Growing and Declining Industries	1988 Ohio Employment (in thous.)	1987-1988 Percent Change	
		Ohio	U.S.
Most Rapidly Growing Industries			
Business Services	222.3	5.8	5.9
Food Stores	139.3	5.3	4.4
Transportation, Except Railroads	109.7	5.1	NA
Special Trade Contractors	113.6	4.5	NA
Primary Metal Industries	99.9*	4.3	4.4
Wholesale Trade-Durable Goods	161.2	3.2	6.3
Local Government, Except Education	190.6*	3.0	NA
Health Services	370.3	2.8	5.9
Nonelectrical Machinery	158.7*	2.2	5.7
Eating and Drinking Places	300.0	1.2	3.8
Declining Industries			
Bituminous Coal and Lignite Mining	8.0*	-12.7	NA
Railroad Transportation	13.2*	-5.3	NA
Oil and Gas Extraction	6.7*	-5.1	2.9
Transportation Equipment	141.8*	-4.8	-.3
Communications	46.8*	-1.5	NA
Rubber and Misc. Plastics Products	90.8*	-1.2	6.0
Stone, Clay, and Glassware	47.8*	-1.2	.8
Food and Kindred Products	62.5*	-1.0	1.3
Electric, Gas, Sanitary Services	41.8	-.6	NA
Electric and Electronic Equipment	86.3*	-.5	1.8
Total, All Industries	4,683.0	2.2	3.6
Manufacturing	1,103.1*	.4	2.5
Nonmanufacturing	3,579.8	2.8	3.9

*1988 employment is below 1979 level.

government, health services, nonelectrical machinery, and eating and drinking places rounded out the list of industries contributing most to the growth in the number of jobs in Ohio in 1988.

Declining Industries. Bituminous coal and lignite mining, railroad transportation, oil and gas extraction, and transportation equipment headed the list of declining industries in the State. Communications, rubber and miscellaneous plastics products, stone, clay, and glassware, and food and kindred products also had notable declines.

Ohio Employment Changes and Recovery Rates
By Selected Industry
Annual Averages for 1979, 1983, and 1988

Industry	Employment (thous.)			Changes		Percent Recovery	
	Peak 1979	Trough 1983	Current 1988	79-83	83-88	Ohio	U.S.
TOTAL	4,485	4,093	4,683	-392	590	150.5	+
Manufacturing	1,382	1,066	1,103	-316	37	11.7	42.4
Durable Goods	981	724	744	-257	20	7.8	38.8
Nondurable Goods	402	342	360	-60	18	30.0	55.4
Nonmanufacturing	3,103	3,027	3,580	-76	553	727.6	+
Mining	32	27	19	-5	-8	-	-
Construction	183	131	184	-52	53	101.9	261.0
Transportation and Public Utilities	232	199	212	-33	13	39.4	344.5
Wholesale Trade	233	223	254	-10	31	310.0	+
Retail Trade	742	711	876	-31	165	532.3	+
Finance, Insurance, and Real Estate	201	208	250	7	42	+	+
Services	806	873	1,088	67	215	+	+
Government	674	656	697	-18	41	227.8	1,948.7

+ No downturn, 1979-1983.
- No upturn, 1983-1988.

Losses and Recovery. Ohio has had a net increase of 590,000 jobs during the period since the last recession, 1979-1983. More than 150% of the jobs lost during that period have now been recovered. (See table, above.) All major nonagricultural wage and salary employment divisions, with the exceptions of services and finance, insurance, and real estate, had major losses between 1979 and 1983. The mining industry has continued to lose jobs during the post-recessionary period, 1983-1988. In Ohio, 11.7 percent of lost jobs in manufacturing have been recovered; 42.4 percent have been regained nationwide. Employment in transportation and public utilities is also still below the 1979 peak level in the State. Just 39.4 percent of lost jobs have been regained statewide in this industry, compared to 344.5 percent nationwide. Employment levels in the other major industries are now above their 1979 levels. Nearly 65 percent of the expansion occurred in services and retail trade. Noteworthy advances were also reported in construction, finance, insurance, and real estate, government, especially local government, and wholesale trade.

Conclusion. The economic recovery in Ohio continued in 1988, with greatest expansion reported in services and retail trade. Manufacturing employment rose fractionally this year, with improvements in both durable- and nondurable-goods industries. Unemployment dropped one percentage point in 1988, to the lowest level since 1979, and total employment climbed to a record level.

The Ohio Labor Force, 1988

Each month, the U.S Bureau of the Census conducts a national household survey, the Current Population Survey (CPS), ~~which~~ the U.S. Bureau of Labor Statistics uses to measure the nation's employment and unemployment. Statewide labor force estimates for Ohio and ten other large states are derived directly from the CPS.

According to CPS data (see table below), the Ohio civilian labor force averaged 5,328,000 in 1988, comprising 5,008,000 employed and 320,000 unemployed. The unemployment rate was 6.0 percent, down from 7.0 percent in 1987.

For men, the unemployment rate was 6.3 percent, compared to 5.7 percent for women. Contrary to the norm in earlier years, men have had higher unemployment rates than women since 1980, when Ohio entered an extended period of economic recession. Industries with predominantly male work forces—mining, construction, manufacturing, and transportation and public utilities—were hard hit and, despite recent gains (except in mining), have not returned to pre-1980 employment levels. On the other hand, the two industries with the highest proportion of female employees—services and finance, insurance, and real estate—added workers even during the recessions of the early 1980's. Women comprised 44.3 percent of the labor force and 41.9 percent of the unemployed in 1988.

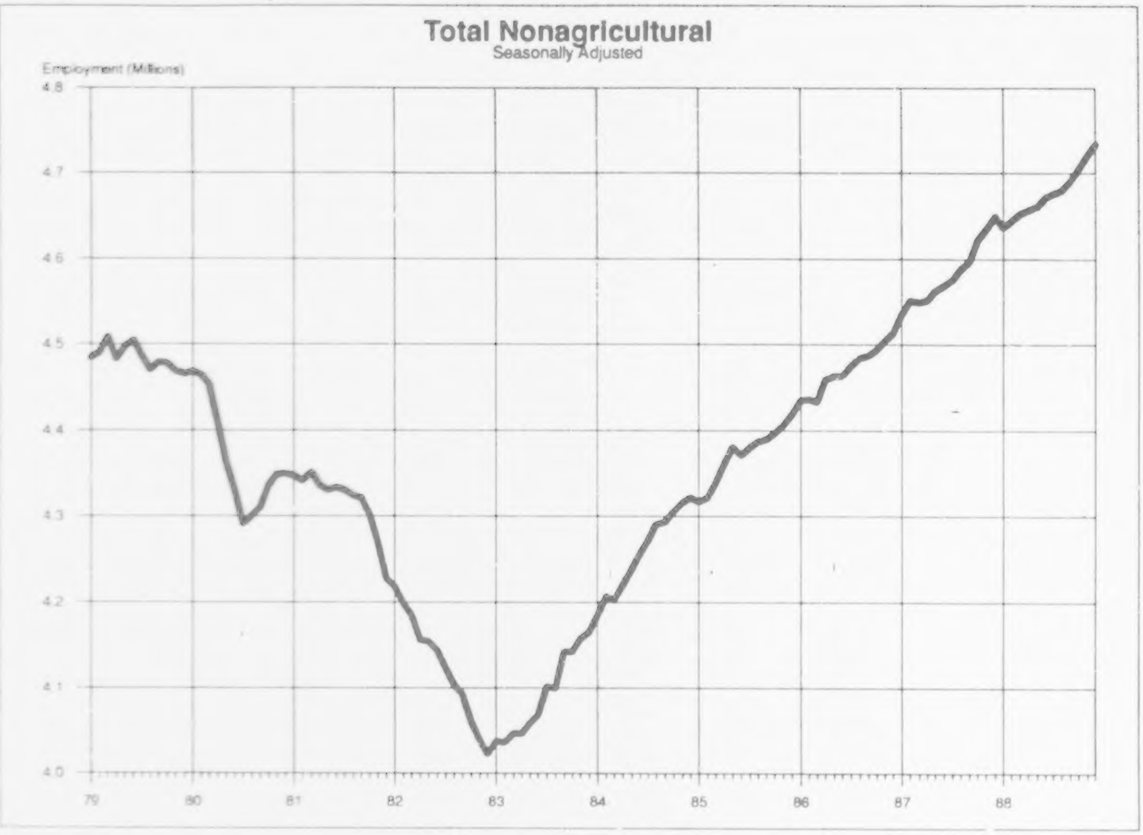
Unemployment rates were highest for young workers (16-24)—12.4 percent for men and 9.7 percent for women. For prime-age workers (25-54), the rates were 5.2 percent for men and 5.1 percent for women. Older workers (55 and over) had the lowest unemployment rates—3.1 percent for men and 2.3 percent for women.

In 1988, the nonwhite unemployment rate (13.3 percent) was more than double the rate for white workers (5.2 percent). The result was that while nonwhites made up 9.7 percent of the labor force, they constituted 21.6 percent of the unemployed. The nonwhite-to-white ratios for the two sexes differed very little in respect to unemployment rate. The rates were 14.1 percent for nonwhite men, 5.5 percent for white men, 12.9 percent for nonwhite women, and 4.8 percent for white women.

Sometime in the Fall of 1989, the Ohio Bureau of Employment Services will provide additional labor force information in its publication, *Ohio at Work: A Chartbook for 1988.*

Employment Status of the Civilian Labor Force
By Sex, Race, and Age Group, Ohio, 1988

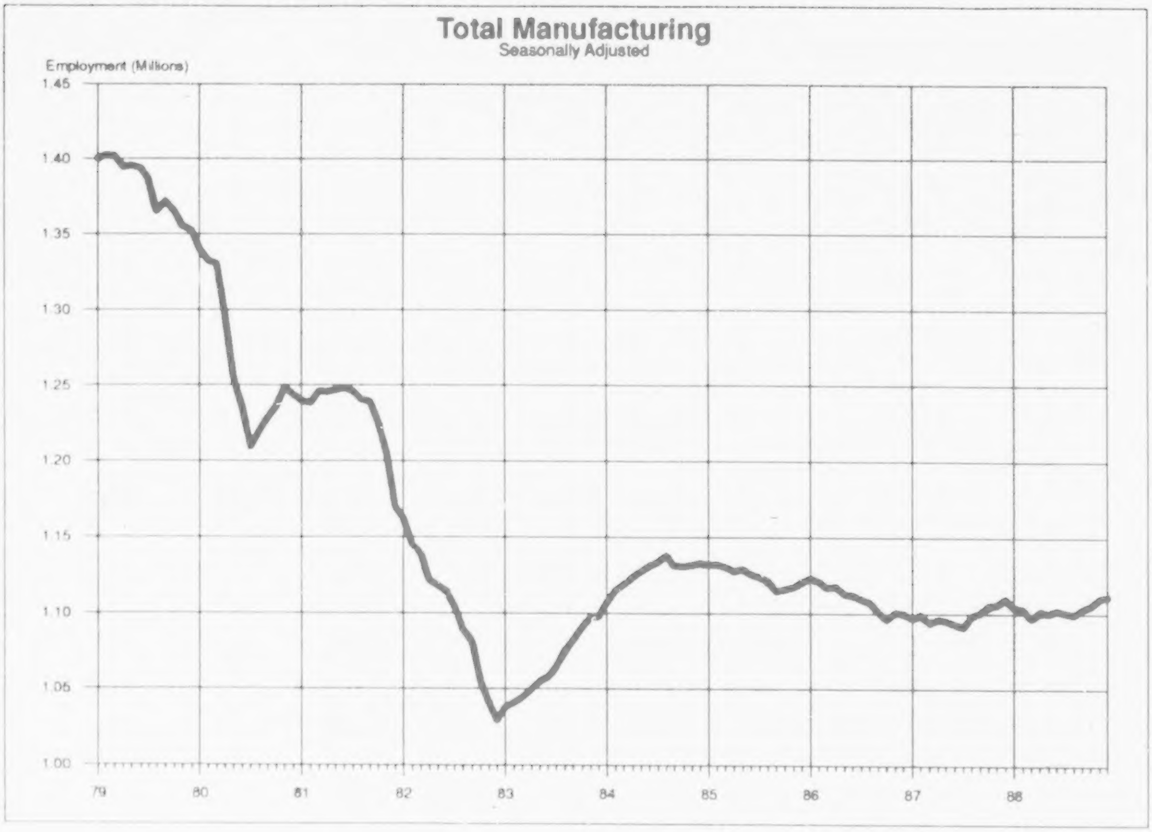
Characteristic	Civilian Labor Force	Employed	Unemployed	Unemployment Rate
Total, age 16 and over	5,328,000	5,008,000	320,000	6.0
Men, total	2,969,000	2,783,000	186,000	6.3
Young Men (16-24)	541,000	474,000	67,000	12.4
Prime-Age Men (25-54)	2,046,000	1,939,000	106,000	5.2
Older Men (55 and over)	383,000	370,000	12,000	3.1
Women, total	2,359,000	2,225,000	134,000	5.7
Young Women (16-24)	495,000	447,000	48,000	9.7
Prime-Age Women (25-54)	1,600,000	1,520,000	81,000	5.1
Older Women (55 and over)	264,000	258,000	6,000	2.3
White, total	4,811,000	4,560,000	251,000	5.2
White Men	2,700,000	2,552,000	148,000	5.5
White Women	2,111,000	2,008,000	102,000	4.8
Nonwhite, total	517,000	448,000	69,000	13.3
Nonwhite Men	269,000	231,000	38,000	14.1
Nonwhite Women	248,000	217,000	32,000	12.9



Ohio Nonagricultural Wage and Salary Employment: 1979 - 1988
(In thousands)
Seasonally Adjusted

Total Nonagricultural

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1979	4,484	4,490	4,508	4,484	4,497	4,505	4,486	4,470	4,479	4,478	4,469	4,466
1980	4,468	4,464	4,454	4,407	4,363	4,329	4,292	4,301	4,311	4,336	4,349	4,350
1981	4,347	4,342	4,351	4,336	4,330	4,334	4,330	4,325	4,322	4,302	4,270	4,228
1982	4,218	4,199	4,186	4,156	4,155	4,144	4,125	4,104	4,094	4,060	4,038	4,022
1983	4,037	4,037	4,047	4,047	4,058	4,068	4,101	4,100	4,143	4,142	4,158	4,165
1984	4,185	4,207	4,203	4,220	4,239	4,256	4,272	4,291	4,293	4,306	4,316	4,322
1985	4,317	4,322	4,339	4,360	4,380	4,371	4,380	4,387	4,390	4,397	4,406	4,418
1986	4,436	4,436	4,434	4,459	4,464	4,464	4,475	4,484	4,487	4,493	4,505	4,513
1987	4,535	4,551	4,549	4,552	4,563	4,568	4,576	4,588	4,597	4,621	4,634	4,650
1988	4,637	4,644	4,653	4,656	4,661	4,671	4,676	4,680	4,691	4,704	4,721	4,733



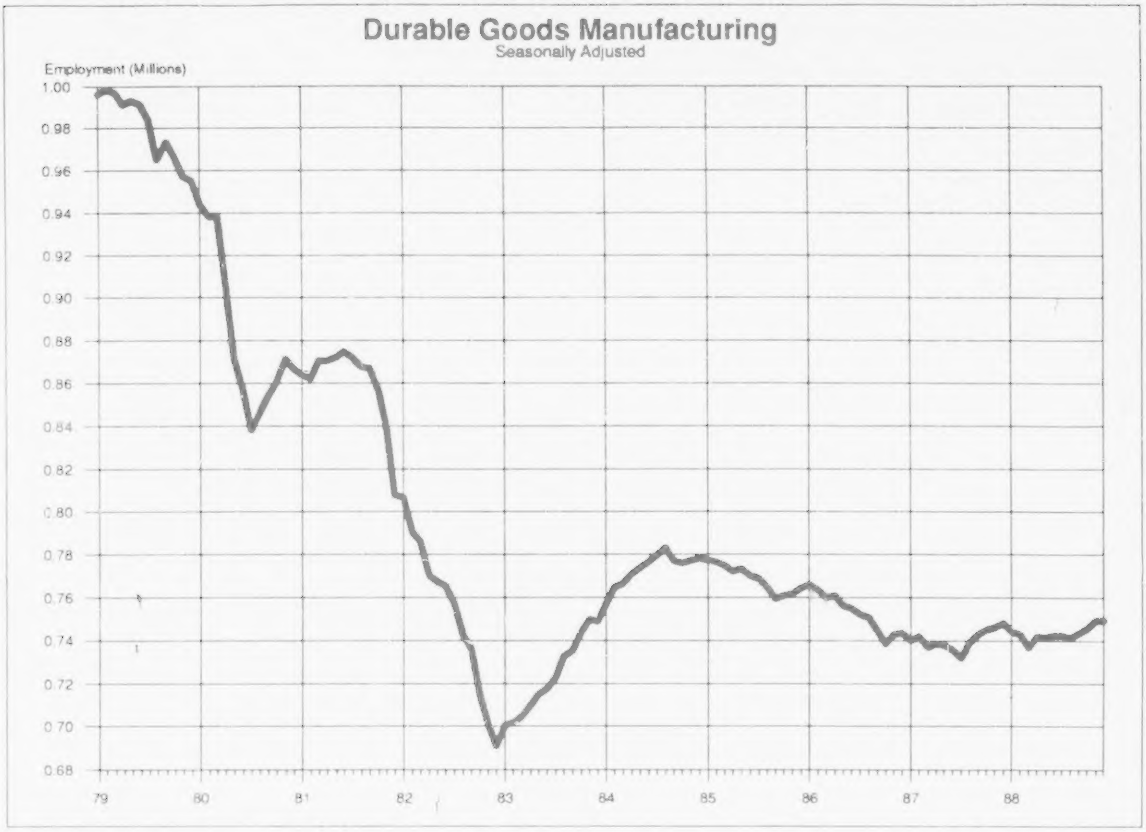
Ohio Nonagricultural Wage and Salary Employment: 1979 - 1988
(in thousands)
Seasonally Adjusted

Total Manufacturing

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1979	1,400	1,403	1,402	1,395	1,396	1,394	1,387	1,366	1,372	1,366	1,356	1,353
1980	1,341	1,333	1,331	1,296	1,255	1,234	1,209	1,220	1,229	1,236	1,249	1,244
1981	1,240	1,238	1,246	1,246	1,247	1,249	1,246	1,241	1,239	1,225	1,204	1,170
1982	1,163	1,145	1,139	1,121	1,118	1,114	1,105	1,089	1,081	1,055	1,040	1,029
1983	1,038	1,041	1,044	1,049	1,055	1,058	1,064	1,075	1,082	1,091	1,097	1,098
1984	1,107	1,115	1,119	1,124	1,128	1,131	1,134	1,138	1,132	1,131	1,132	1,133
1985	1,132	1,132	1,130	1,128	1,130	1,126	1,124	1,121	1,115	1,116	1,118	1,121
1986	1,123	1,121	1,117	1,118	1,113	1,112	1,109	1,108	1,101	1,096	1,101	1,100
1987	1,096	1,099	1,094	1,096	1,096	1,093	1,091	1,098	1,101	1,105	1,106	1,110
1988	1,104	1,103	1,097	1,101	1,100	1,102	1,101	1,100	1,103	1,105	1,110	1,111

Durable Goods Manufacturing

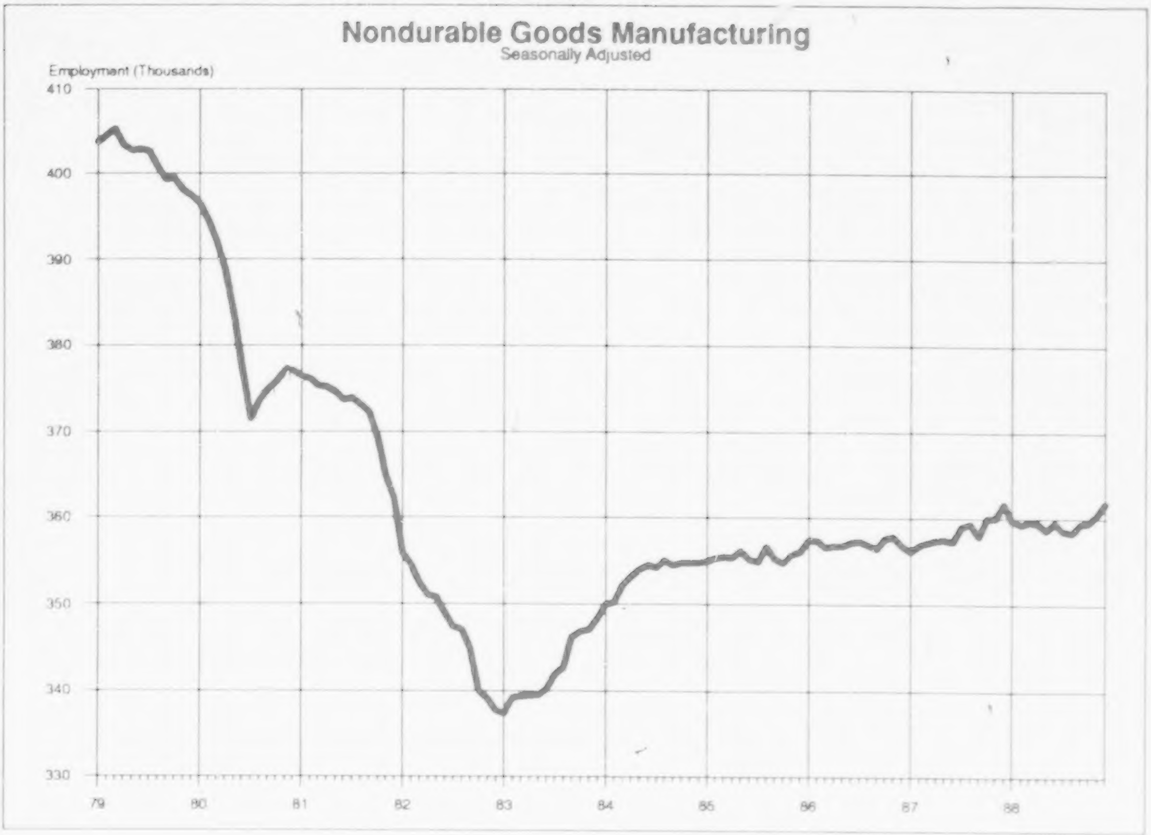
Seasonally Adjusted



Ohio Nonagricultural Wage and Salary Employment: 1979 - 1988
(In thousands)
Seasonally Adjusted

Durable Goods Manufacturing

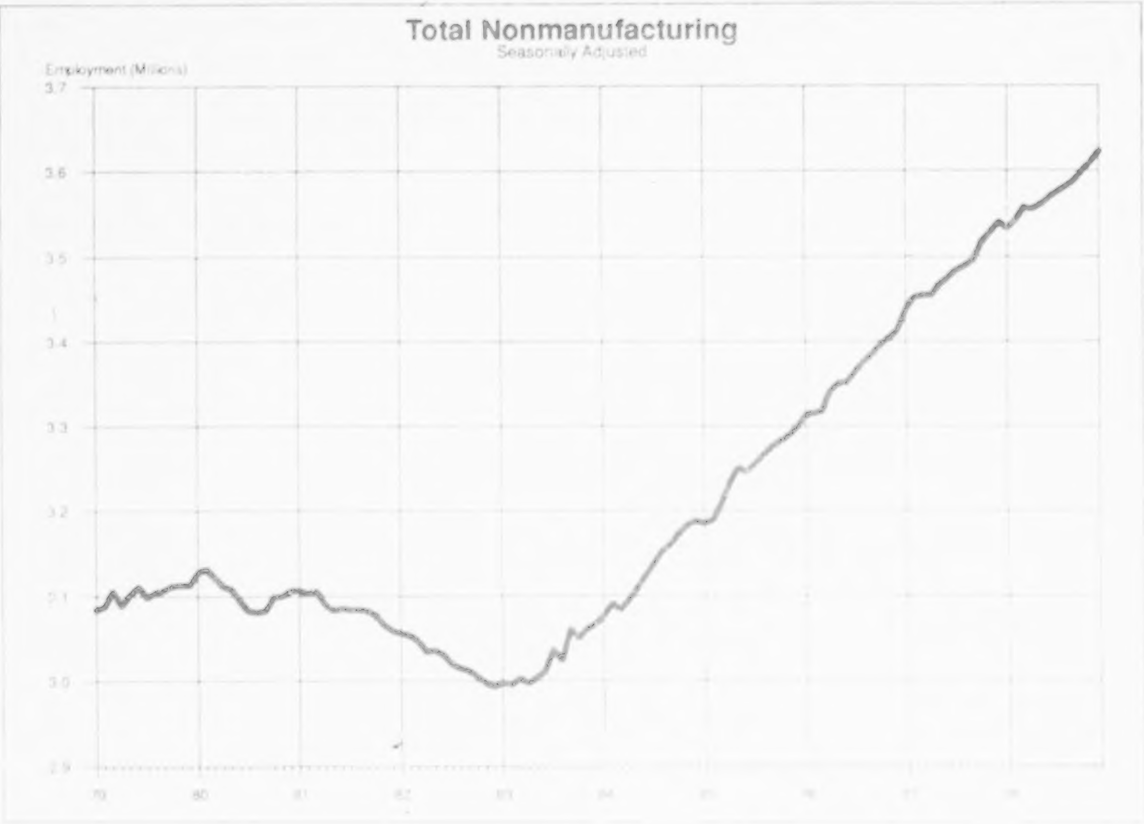
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1979	996	998	997	991	993	991	984	965	973	966	957	955
1980	944	938	939	907	871	857	838	847	854	860	872	867
1981	864	862	871	870	872	875	872	867	867	856	839	808
1982	807	791	786	770	767	765	757	742	736	715	701	691
1983	701	702	705	710	715	718	723	733	736	744	750	749
1984	757	765	767	771	774	777	780	783	777	776	777	778
1985	777	777	775	772	773	770	769	765	759	761	762	764
1986	766	764	760	761	756	755	752	751	744	739	743	743
1987	740	742	737	739	738	736	732	739	743	745	746	748
1988	744	743	737	742	742	742	742	741	743	746	750	750



Ohio Nonagricultural Wage and Salary Employment: 1979 - 1988
(in thousands)
Seasonally Adjusted

Nondurable Goods Manufacturing

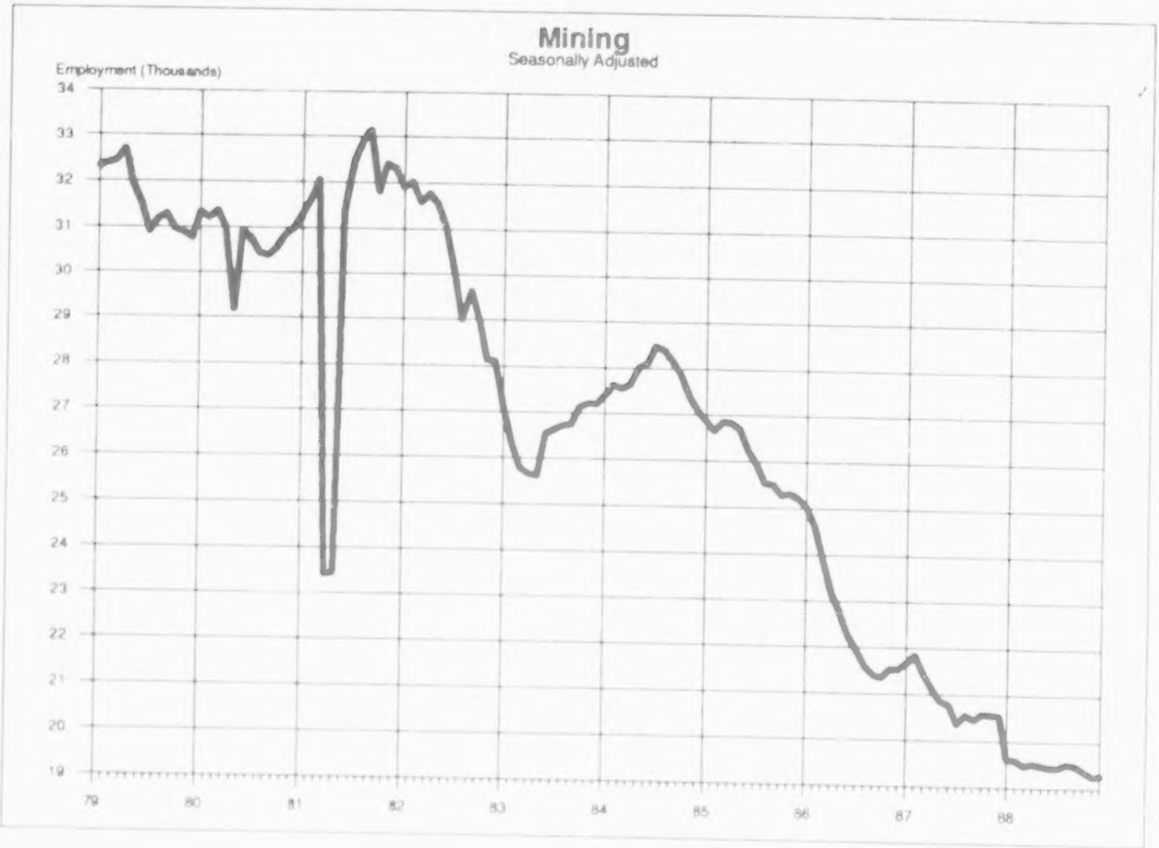
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1979	404	405	405	403	403	403	403	401	399	399	398	397
1980	397	395	392	389	383	377	372	374	375	376	377	377
1981	376	376	375	375	375	374	374	373	372	369	365	362
1982	356	355	353	351	351	349	347	347	345	340	339	338
1983	337	339	339	339	340	340	342	343	346	347	347	348
1984	350	350	352	353	354	355	354	355	355	355	355	355
1985	355	355	356	355	356	355	355	357	355	355	356	356
1986	357	357	357	357	357	357	357	357	357	358	358	357
1987	356	357	357	357	358	357	359	359	358	360	360	362
1988	360	359	360	360	359	360	359	358	359	360	361	362



Ohio Nonagricultural Wage and Salary Employment: 1979 - 1988
(in thousands)
Seasonally Adjusted

Total Nonmanufacturing

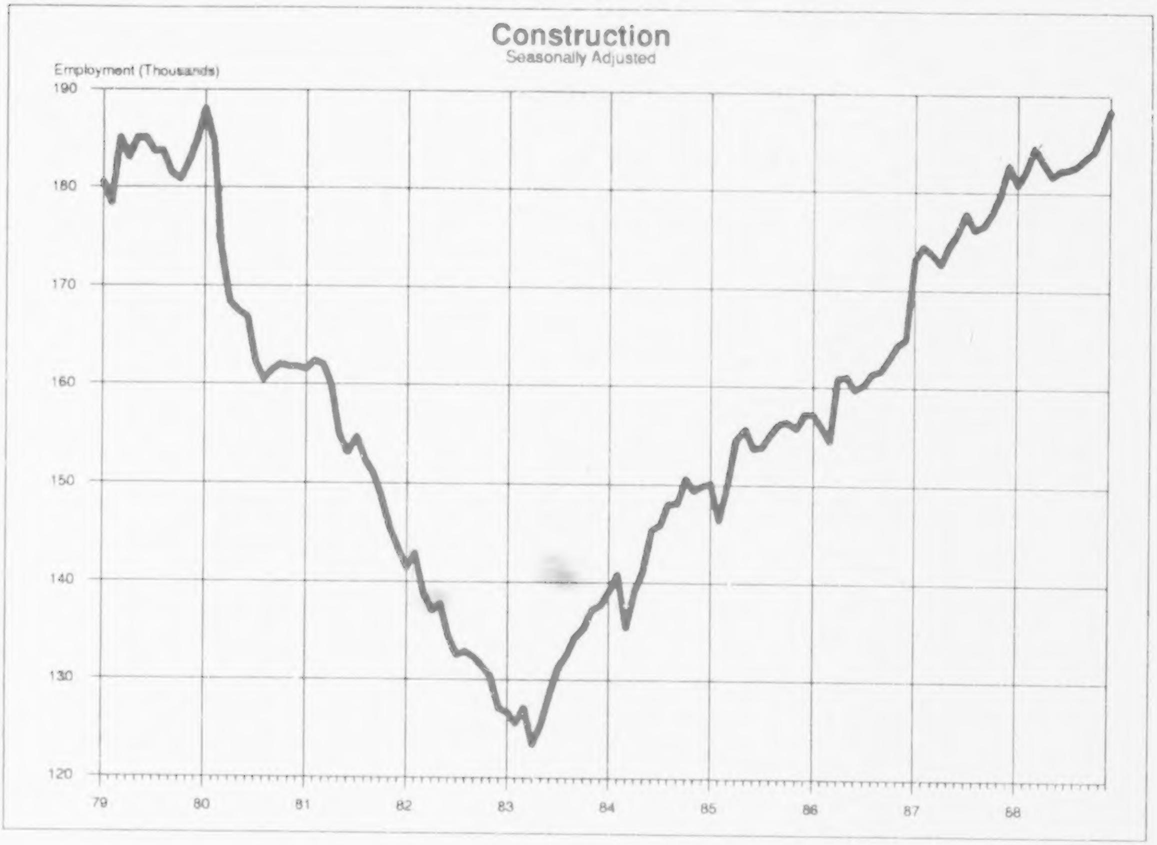
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1979	3,084	3,088	3,105	3,089	3,101	3,111	3,099	3,104	3,107	3,112	3,113	3,113
1980	3,128	3,131	3,123	3,112	3,109	3,095	3,082	3,081	3,082	3,100	3,100	3,106
1981	3,107	3,104	3,105	3,091	3,083	3,085	3,084	3,084	3,082	3,077	3,066	3,058
1982	3,056	3,053	3,047	3,035	3,036	3,030	3,020	3,015	3,012	3,005	2,998	2,993
1983	2,999	2,996	3,002	2,997	3,004	3,010	3,037	3,025	3,061	3,051	3,061	3,067
1984	3,078	3,092	3,084	3,096	3,111	3,125	3,138	3,153	3,162	3,175	3,184	3,189
1985	3,185	3,190	3,209	3,232	3,250	3,246	3,256	3,266	3,275	3,281	3,289	3,298
1986	3,312	3,315	3,317	3,341	3,351	3,351	3,365	3,376	3,386	3,397	3,404	3,413
1987	3,439	3,452	3,455	3,456	3,467	3,475	3,484	3,490	3,497	3,516	3,528	3,540
1988	3,533	3,542	3,557	3,555	3,561	3,569	3,575	3,581	3,589	3,599	3,611	3,622



Ohio Nonagricultural Wage and Salary Employment: 1979 - 1988
(in thousands)
Seasonally Adjusted

Mining

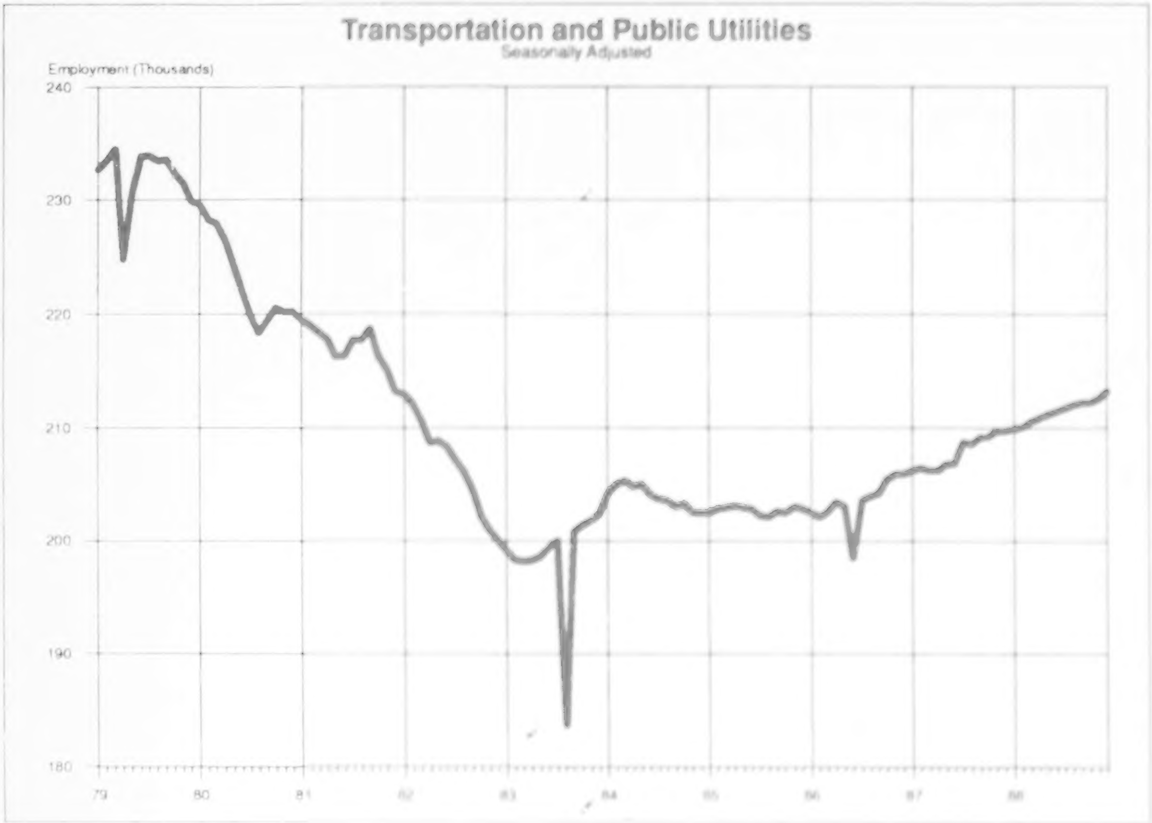
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1979	32	32	32	33	32	32	31	31	31	31	31	31
1980	31	31	31	31	29	31	31	30	30	31	31	31
1981	31	32	32	23	23	31	32	33	33	32	32	32
1982	32	32	32	32	32	31	30	29	30	29	28	28
1983	27	26	26	26	26	27	27	27	27	27	27	27
1984	27	28	28	28	28	28	28	28	28	28	27	27
1985	27	27	27	27	27	26	26	26	26	25	25	25
1986	25	25	24	23	23	22	22	22	21	21	22	22
1987	22	22	21	21	21	21	20	21	20	21	21	21
1988	20	20	19	20	19	19	19	20	19	19	19	19



Ohio Nonagricultural Wage and Salary Employment: 1979 - 1988
(In thousands)
Seasonally Adjusted

Construction

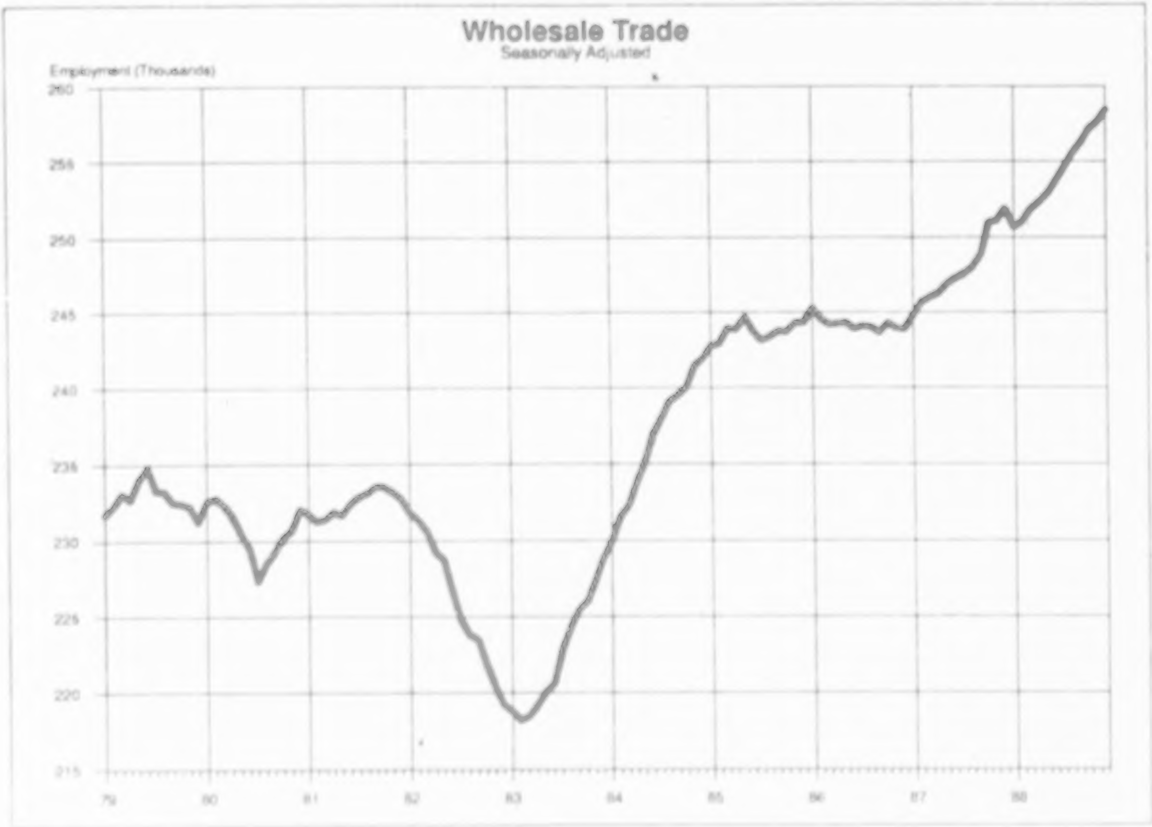
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1979	180	178	185	183	185	185	184	184	182	181	182	185
1980	188	184	174	168	167	167	162	160	161	162	162	162
1981	162	162	162	160	155	153	155	152	151	149	146	144
1982	141	143	139	137	138	135	133	133	132	131	130	127
1983	127	126	127	123	126	129	131	133	134	135	137	138
1984	139	141	136	139	141	145	146	148	148	151	149	150
1985	150	146	150	155	156	154	154	155	156	156	156	157
1986	157	156	155	161	161	160	160	161	162	163	164	165
1987	173	174	174	173	174	176	178	176	177	178	180	183
1988	181	182	185	183	182	182	182	183	184	184	186	188



Ohio Nonagricultural Wage and Salary Employment: 1979 - 1988
(in thousands)
Seasonally Adjusted

Transportation and Public Utilities

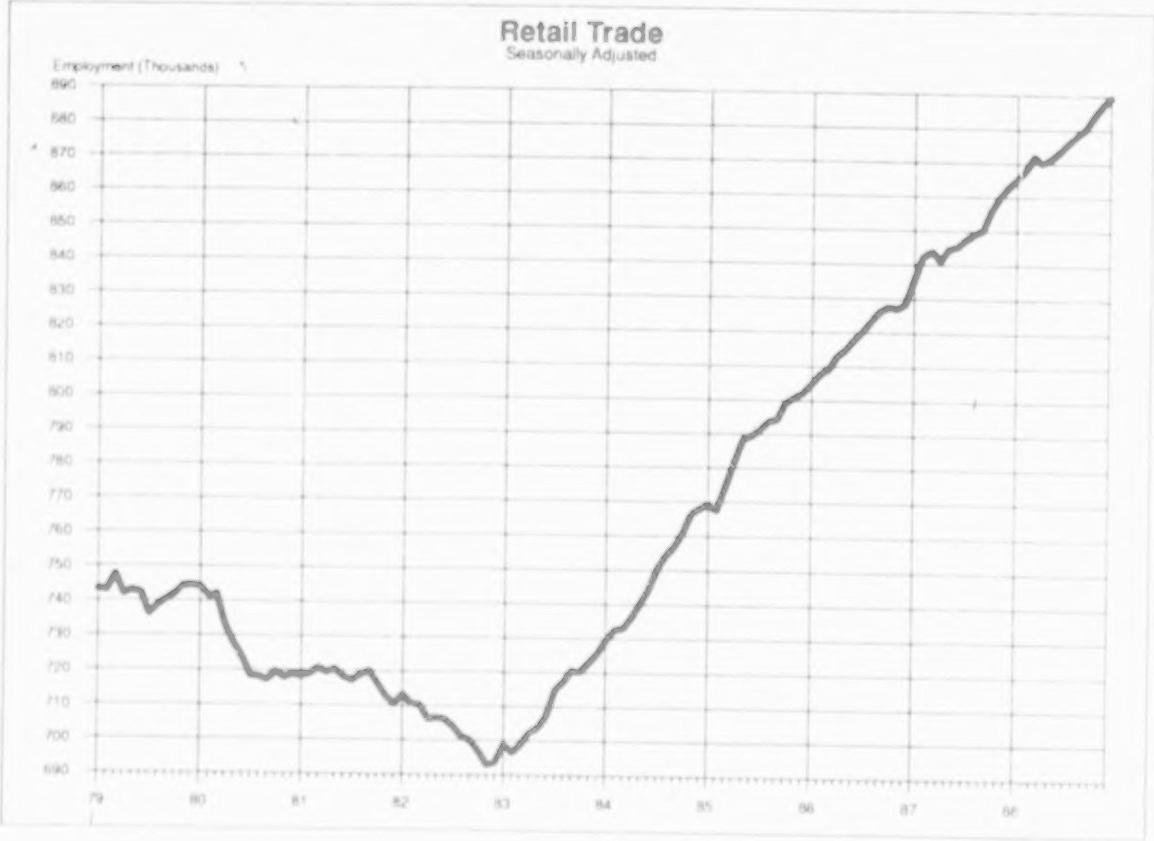
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1979	233	233	234	225	231	234	234	233	234	232	231	230
1980	230	228	228	227	224	222	220	218	219	221	220	220
1981	220	219	218	218	216	216	218	218	219	216	215	213
1982	213	212	211	209	209	208	207	206	205	202	201	200
1983	199	198	198	198	199	199	200	184	201	201	202	202
1984	204	205	205	205	205	204	204	204	203	203	203	202
1985	202	203	203	203	203	203	202	202	203	202	203	203
1986	203	202	203	203	203	198	204	204	204	205	206	206
1987	206	206	206	206	207	207	209	209	209	209	210	210
1988	210	210	211	211	211	211	212	212	212	212	213	213



Ohio Nonagricultural Wage and Salary Employment: 1979 - 1988
(in thousands)
Seasonally Adjusted

Wholesale Trade

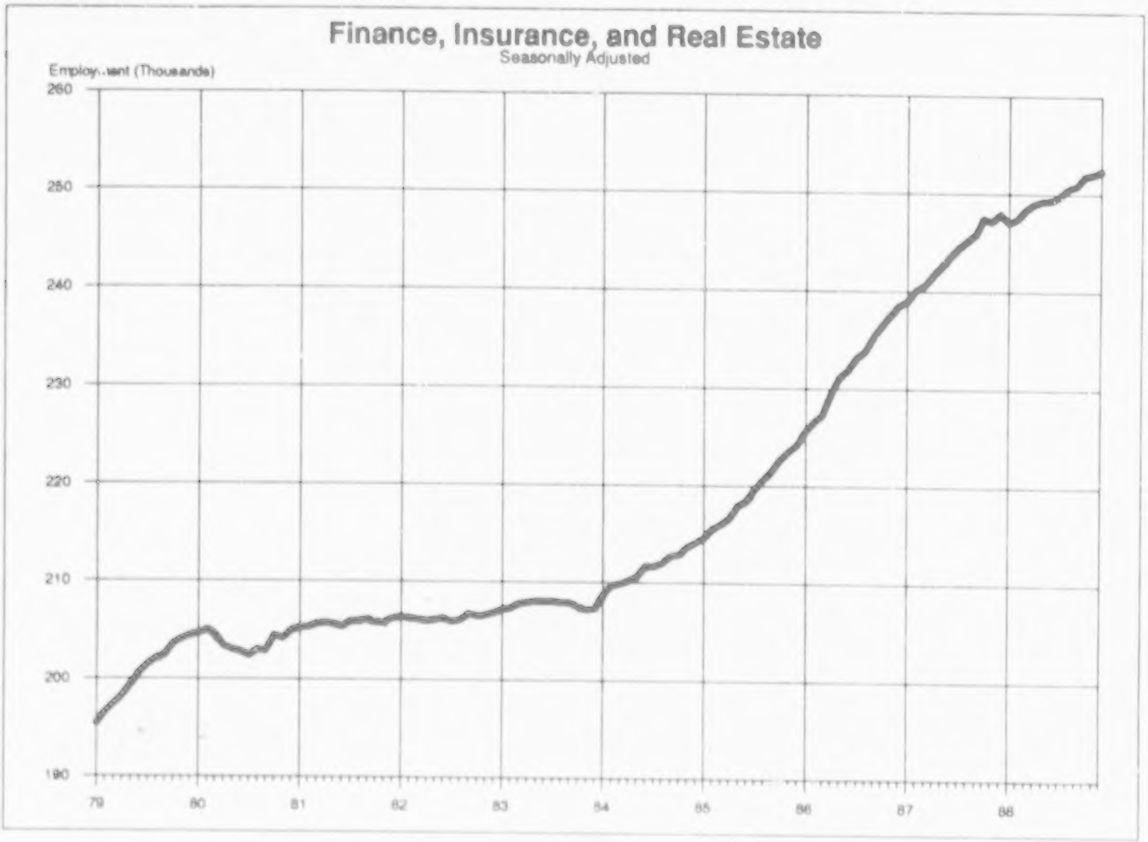
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1979	232	232	233	233	234	235	233	233	233	232	232	231
1980	233	233	232	232	230	229	227	229	229	230	231	232
1981	232	231	231	232	232	232	233	233	234	234	233	233
1982	232	231	231	229	229	227	225	224	223	222	220	219
1983	219	218	218	219	220	221	223	224	225	226	227	229
1984	230	232	232	234	235	237	238	239	240	240	241	242
1985	243	243	244	244	245	244	243	243	244	244	244	244
1986	245	245	244	244	244	244	244	244	244	244	244	244
1987	245	246	246	246	247	247	248	248	249	251	251	252
1988	251	251	252	252	253	254	255	256	256	257	258	258



Ohio Nonagricultural Wage and Salary Employment: 1979 - 1988
(in thousands)
Seasonally Adjusted

Retail Trade

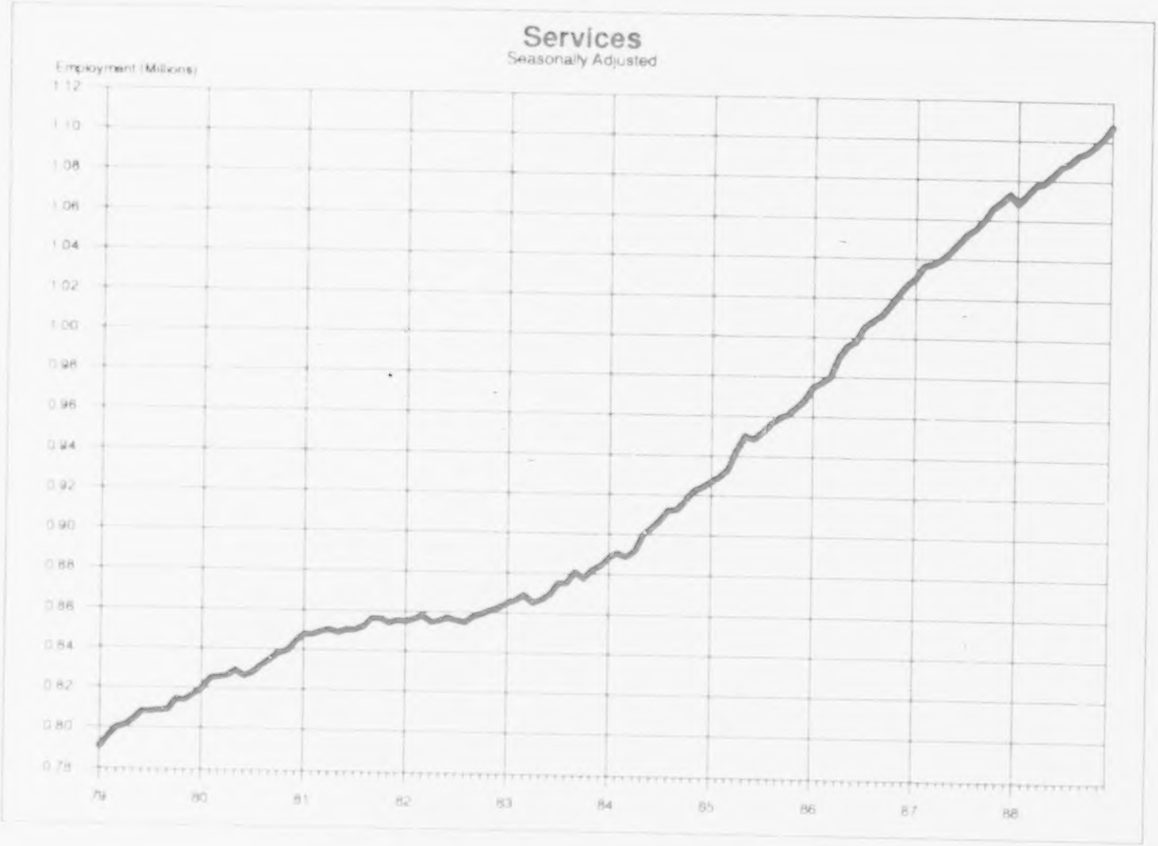
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1979	743	743	748	742	743	742	736	739	741	742	744	745
1980	744	741	742	733	728	724	719	718	717	720	718	719
1981	718	719	721	720	721	718	717	719	720	717	713	710
1982	713	711	710	706	707	706	704	701	700	697	693	694
1983	699	697	699	702	704	707	715	717	721	720	723	726
1984	729	733	733	736	740	745	751	754	757	761	766	768
1985	769	768	775	782	788	789	791	794	794	799	801	802
1986	805	808	809	813	815	818	820	823	826	828	827	828
1987	836	842	844	841	844	845	847	849	850	856	860	863
1988	865	868	872	870	871	874	876	878	880	884	887	889



Ohio Nonagricultural Wage and Salary Employment: 1979 - 1988
(in thousands)
Seasonally Adjusted

Finance, Insurance, and Real Estate

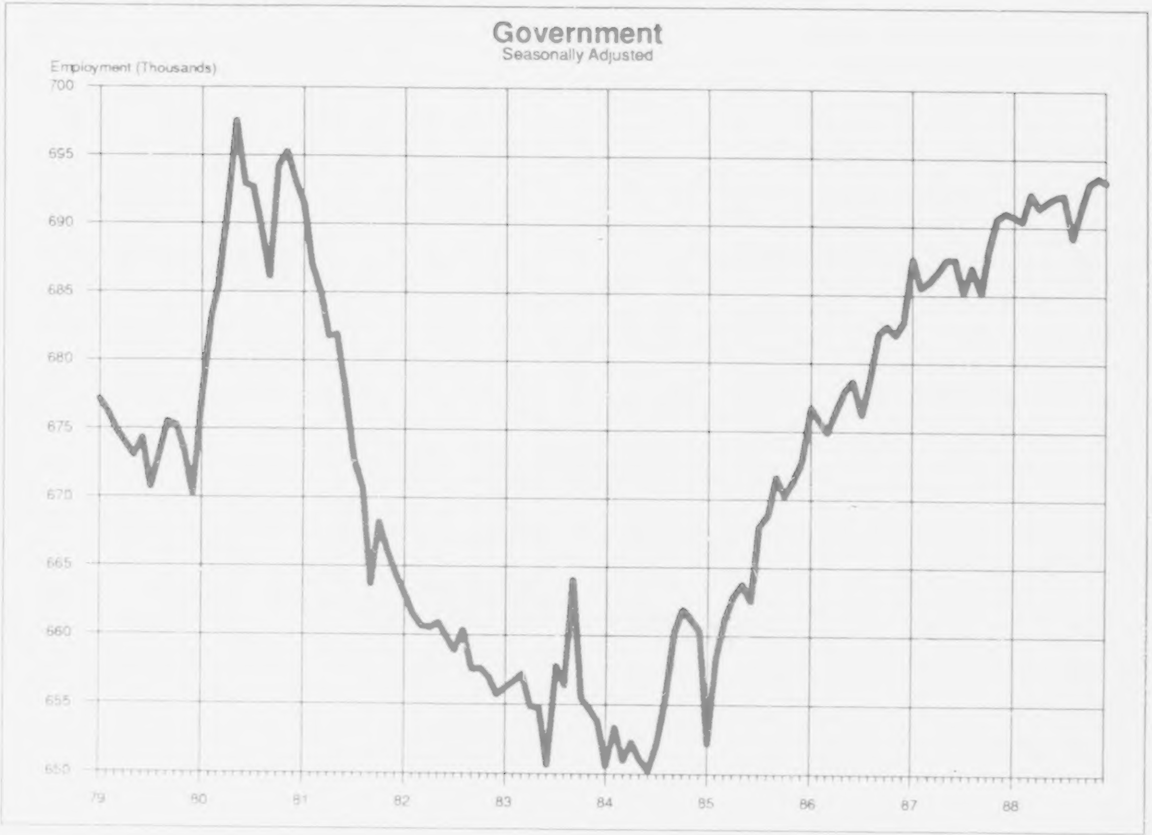
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1979	196	197	197	198	199	201	202	202	202	204	204	205
1980	205	205	205	203	203	203	202	203	203	204	204	205
1981	205	205	206	206	206	205	206	206	206	206	206	206
1982	206	206	206	206	206	206	206	206	207	207	207	207
1983	207	207	208	208	208	208	208	208	208	208	207	207
1984	209	210	210	210	211	212	212	212	213	213	214	214
1985	215	216	216	217	218	218	220	221	222	223	224	224
1986	226	227	227	229	231	232	233	234	235	236	238	239
1987	239	240	241	242	243	244	244	245	246	247	247	248
1988	247	247	248	249	249	249	250	251	251	252	252	252



Ohio Nonagricultural Wage and Salary Employment: 1979 - 1988
(in thousands)
Seasonally Adjusted

Services

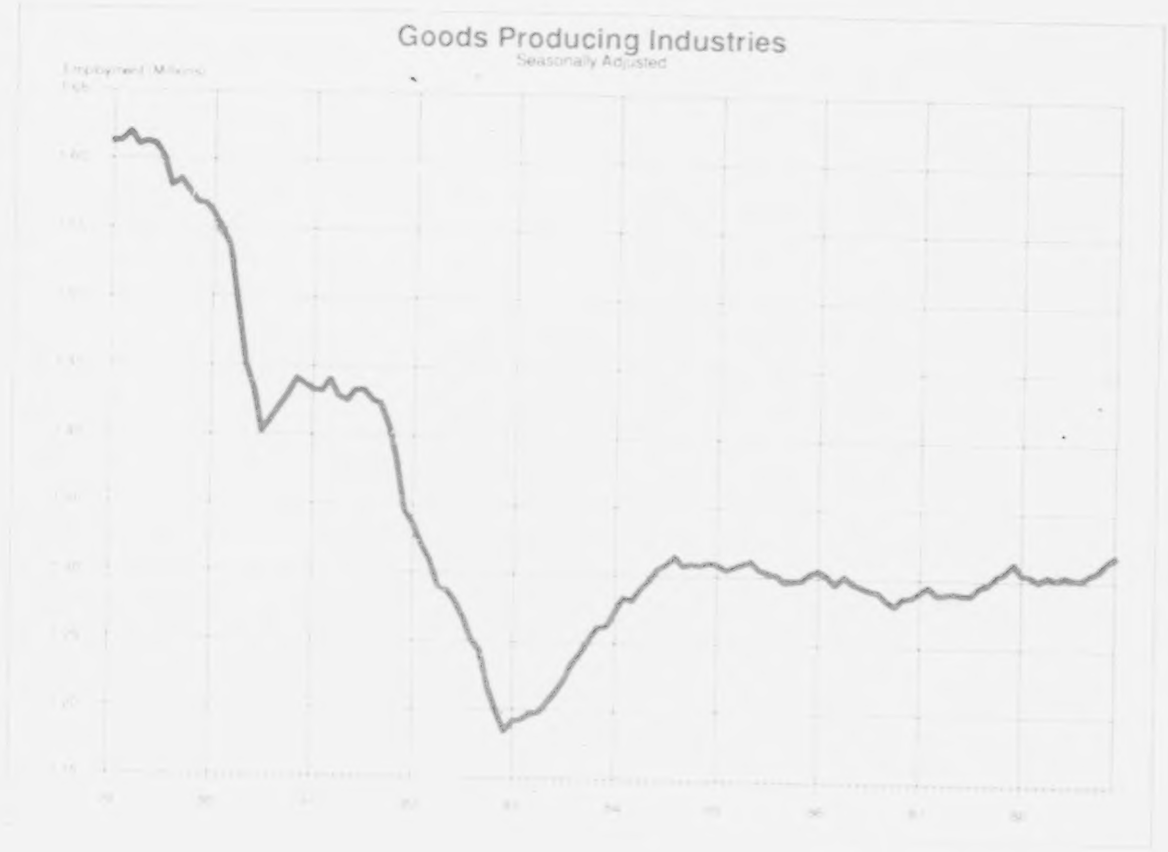
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1979	791	795	800	802	804	808	808	809	809	815	814	817
1980	820	825	826	826	829	826	828	832	835	838	839	844
1981	848	848	849	850	849	850	850	852	856	856	854	855
1982	855	856	858	855	856	857	856	855	858	859	861	863
1983	865	867	869	865	867	869	875	875	881	878	882	884
1984	888	891	889	892	900	904	907	913	913	917	922	924
1985	927	930	933	943	950	949	952	956	959	961	964	968
1986	975	977	980	990	996	998	1,006	1,009	1,012	1,016	1,022	1,027
1987	1,030	1,036	1,037	1,040	1,043	1,048	1,053	1,055	1,060	1,066	1,069	1,073
1988	1,068	1,073	1,078	1,079	1,083	1,087	1,089	1,093	1,095	1,097	1,102	1,108



Ohio Nonagricultural Wage and Salary Employment: 1979 - 1988
(in thousands)
Seasonally Adjusted

Government

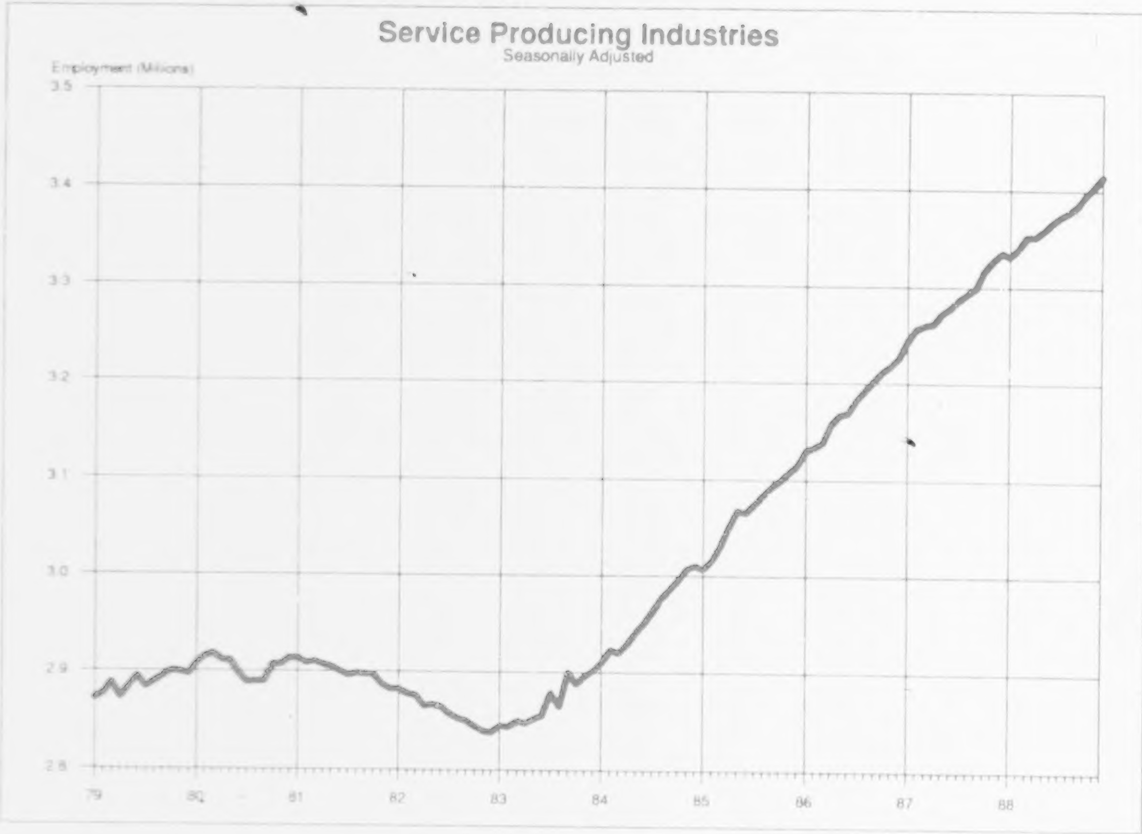
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1979	677	676	675	674	673	674	671	673	676	675	673	670
1980	677	683	685	691	697	693	693	690	686	694	695	693
1981	691	687	685	682	682	678	673	671	664	668	666	664
1982	663	662	661	661	661	660	659	660	658	658	657	656
1983	656	657	657	655	655	651	658	656	664	656	655	654
1984	651	653	651	652	651	650	652	655	660	662	661	660
1985	652	658	661	663	664	663	668	669	672	670	671	673
1986	677	676	675	676	678	679	676	679	682	683	682	683
1987	688	686	686	687	688	688	685	687	685	688	691	691
1988	691	690	692	691	692	692	692	689	691	693	694	693



Ohio Nonagricultural Wage and Salary Employment: 1979 - 1988
(in thousands)
Seasonally Adjusted

Goods Producing Industries

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1979	1,613	1,613	1,620	1,610	1,613	1,611	1,601	1,581	1,585	1,577	1,569	1,568
1980	1,560	1,548	1,536	1,495	1,451	1,432	1,403	1,411	1,421	1,429	1,441	1,437
1981	1,433	1,432	1,440	1,429	1,425	1,433	1,433	1,426	1,423	1,406	1,382	1,346
1982	1,336	1,320	1,309	1,290	1,288	1,280	1,267	1,251	1,243	1,215	1,199	1,184
1983	1,192	1,193	1,197	1,198	1,206	1,213	1,222	1,235	1,243	1,253	1,261	1,262
1984	1,274	1,283	1,282	1,291	1,297	1,305	1,308	1,315	1,308	1,310	1,309	1,310
1985	1,309	1,305	1,307	1,309	1,312	1,306	1,304	1,302	1,297	1,298	1,299	1,303
1986	1,306	1,302	1,295	1,302	1,297	1,294	1,292	1,291	1,284	1,281	1,286	1,287
1987	1,291	1,295	1,289	1,290	1,291	1,290	1,289	1,295	1,298	1,304	1,306	1,313
1988	1,305	1,304	1,301	1,304	1,302	1,304	1,303	1,302	1,306	1,309	1,316	1,319

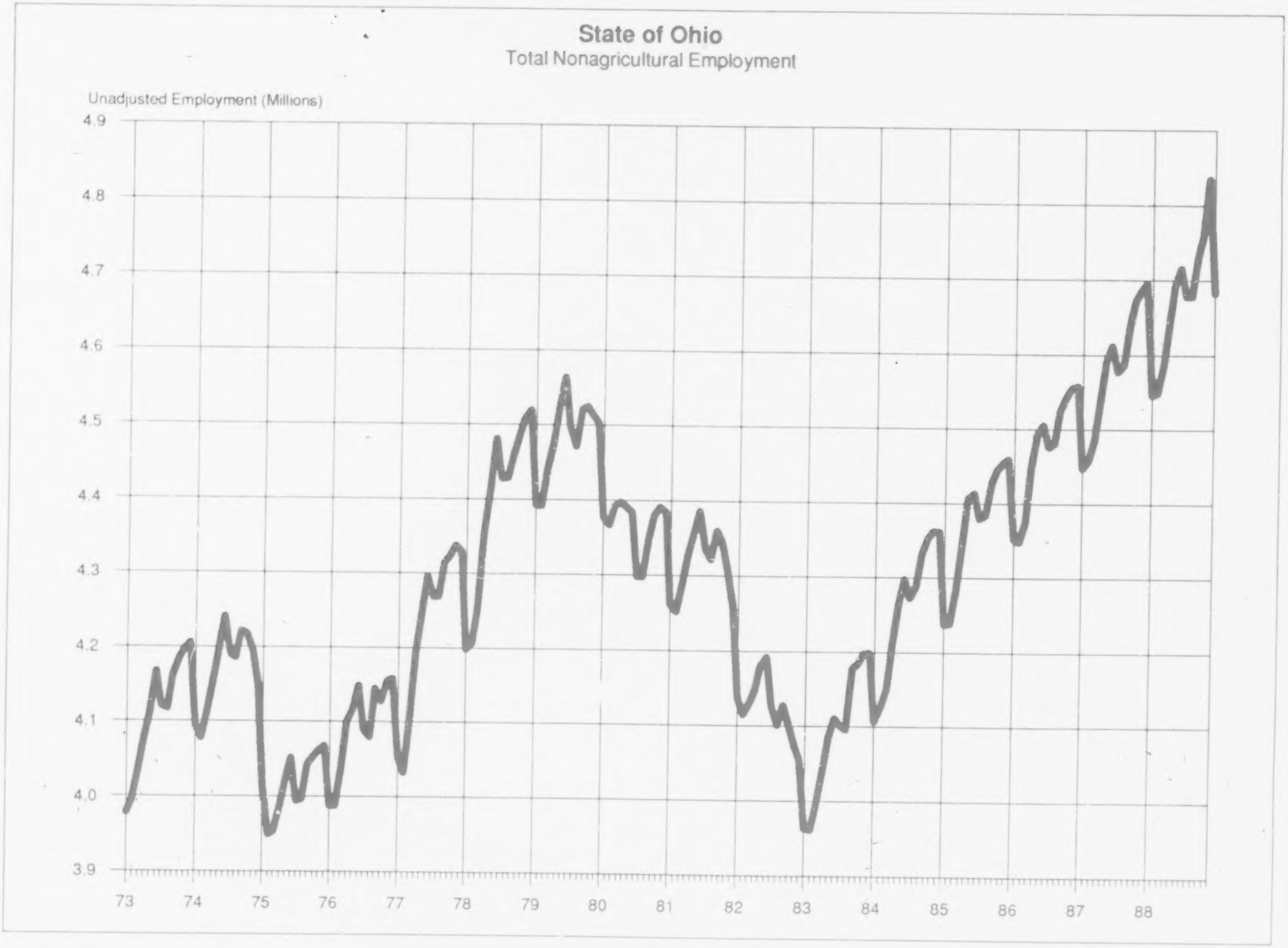


Service Producing Industries
Seasonally Adjusted

Ohio Nonagricultural Wage and Salary Employment: 1979 - 1988
(In thousands)
Seasonally Adjusted

Service Producing Industries

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1979	2,871	2,877	2,888	2,873	2,884	2,894	2,884	2,889	2,894	2,900	2,900	2,898
1980	2,908	2,916	2,918	2,912	2,912	2,897	2,889	2,890	2,890	2,907	2,908	2,914
1981	2,914	2,910	2,911	2,907	2,905	2,901	2,897	2,899	2,898	2,897	2,887	2,882
1982	2,882	2,878	2,876	2,866	2,867	2,864	2,857	2,853	2,850	2,844	2,839	2,838
1983	2,845	2,844	2,850	2,848	2,852	2,855	2,879	2,865	2,900	2,889	2,897	2,902
1984	2,911	2,923	2,921	2,929	2,942	2,952	2,964	2,977	2,986	2,996	3,007	3,011
1985	3,008	3,017	3,032	3,051	3,068	3,066	3,076	3,085	3,093	3,099	3,107	3,115
1986	3,130	3,134	3,139	3,157	3,167	3,169	3,183	3,193	3,203	3,213	3,218	3,227
1987	3,244	3,256	3,260	3,262	3,272	3,278	3,286	3,293	3,300	3,318	3,327	3,337
1988	3,332	3,340	3,353	3,352	3,360	3,367	3,373	3,378	3,386	3,396	3,406	3,414


State of Ohio
Total Nonagricultural Employment
Unadjusted Employment (Millions)
4.9
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4.0
3.9
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88

Nonagricultural Wage and Salary Employment in Ohio, By Industrial Division, Since 1939[a]

(in thousands)

Year	Nonagricultural Wage and Salary	Mining	Construction	Manufacturing	Transportation and Utilities	Wholesale and Retail Trade	Finance, Insurance, Real Estate	Services	Government
1939	1783.8	27.3	63.1	769.8	158.4	330.4	56.7	176.4	201.8
1940	1906.6	27.0	65.3	843.6	169.2	350.5	56.1	184.6	210.2
1941	2201.3	29.9	101.8	1039.4	186.8	370.9	60.4	192.6	219.4
1942	2411.3	32.2	99.3	1204.9	198.2	368.3	58.3	200.1	250.1
1943	2607.0	29.2	79.7	1390.1	204.7	360.3	56.0	201.6	285.4
1944	2558.0	27.9	59.3	1359.7	209.8	361.8	55.5	202.3	281.8
1945	2417.9	25.7	61.2	1218.2	207.1	358.9	56.9	209.8	280.1
1946	2532.1	27.6	101.6	1190.0	219.2	410.6	65.5	239.9	277.7
1947	2708.3	30.2	123.1	1269.3	227.6	457.3	69.2	259.5	272.1
1948	2785.5	31.1	134.6	1261.7	235.8	495.7	72.2	277.0	277.6
1949	2654.9	28.1	127.1	1142.2	217.5	503.7	73.6	274.8	287.8
1950	2760.0	27.9	134.1	1220.0	223.3	505.7	76.8	277.3	294.8
1951	2953.4	26.3	158.8	1339.5	236.6	523.8	79.4	283.0	306.0
1952	3005.7	24.4	161.4	1357.3	235.0	537.4	85.4	291.5	313.2
1953	3150.3	23.0	166.5	1446.9	240.1	557.2	89.3	303.1	324.3
1954	3028.4	20.7	184.0	1314.0	221.3	555.9	92.6	307.8	332.1
1955	3128.9	21.0	183.4	1370.6	223.8	571.2	96.3	318.5	344.1
1956	3219.7	22.1	184.8	1393.7	228.9	598.0	100.6	335.0	356.7
1957	3230.6	22.0	183.3	1370.9	226.4	609.4	104.9	346.9	366.9
1958	3007.2	20.1	162.8	1198.3	207.6	586.6	107.9	344.6	379.4
1959	3112.5	20.0	161.4	1264.5	208.5	603.3	111.8	356.2	386.7
1960	3147.3	19.9	152.2	1264.8	208.7	619.2	116.2	367.2	399.2
1961	3044.3	18.9	142.1	1183.2	198.5	601.3	119.2	368.7	412.5
1962	3099.2	18.8	137.9	1218.2	198.1	605.2	120.5	376.4	424.2
1963	3145.2	18.4	137.1	1236.6	197.1	611.3	122.6	390.3	431.7
1964	3216.3	19.6	141.3	1259.1	197.8	624.0	124.9	409.3	440.3
1965	3364.3	18.8	152.0	1326.0	202.3	647.6	127.0	432.1	458.6
1966	3537.3	18.4	162.0	1404.4	207.5	675.2	129.6	457.1	483.0
1967	3619.8	18.9	163.8	1401.4	209.0	697.3	135.3	484.6	509.5
1968	3750.8	18.9	175.5	1433.5	214.4	727.0	141.0	512.2	528.3
1969	3887.3	19.6	184.8	1471.0	221.0	759.0	146.0	541.2	544.8
1970	3880.7	20.6	164.2	1409.9	225.0	773.2	154.2	568.1	565.5
1971	3839.6	20.8	155.2	1333.8	223.8	782.8	158.6	587.4	577.2
1972	3938.4	22.7	165.1	1346.8	222.9	816.3	163.8	611.7	589.1
1973	4112.9	22.9	175.5	1426.3	224.9	852.6	169.0	643.9	597.8
1974	4169.4	24.2	172.3	1416.6	227.8	873.8	171.9	669.7	613.1
1975	4016.2	26.8	154.9	1267.5	213.2	868.0	173.1	686.3	626.4
1976	4094.6	28.2	154.2	1295.3	213.7	890.8	177.0	703.2	632.2
1977	4230.1	29.1	162.8	1344.1	219.1	917.8	183.4	731.4	642.3
1978	4394.9	29.0	176.6	1377.2	225.0	956.4	191.1	772.1	667.5
1979	4484.8	31.6	182.9	1382.3	232.1	975.2	200.6	806.2	674.0
1980	4367.4	30.7	167.4	1264.3	223.1	957.2	203.8	830.9	689.9
1981	4317.7	30.7	153.7	1232.6	217.2	950.1	205.8	851.6	676.0
1982	4124.3	30.3	134.6	1099.9	206.8	929.4	206.4	857.3	659.6
1983	4092.5	26.6	130.8	1066.0	198.5	933.5	207.8	873.3	656.1
1984	4260.2	27.8	144.8	1127.0	203.9	984.7	211.5	905.2	655.2
1985	4372.9	26.1	154.0	1124.2	202.7	1031.6	219.3	949.5	665.2
1986	4471.4	22.6	160.7	1109.8	203.4	1062.9	232.3	1001.0	678.9
1987	4582.6	20.9	176.4	1098.9	207.8	1096.3	243.8	1051.2	687.3
1988[b]	4683.0	19.5	153.6	1103.1	211.5	1130.8	249.8	1087.8	696.8

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics

[b] Preliminary

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus, OH 43215 (5-25-89) RS 790.1-2
(March 1988 BM)

Proportion of Nonagricultural Wage and Salary Employees in Ohio, By Industrial Division, Since 1939[a] (percent of Ohio total)

Year	Nonagricultural Wage and Salary	Mining	Construction	Manufacturing	Transportation and Utilities	Wholesale and Retail Trade	Finance, Insurance, Real Estate	Services	Government
1939	100.0	1.5	3.5	43.2	8.9	18.5	3.2	9.9	11.3
1940	100.0	1.4	3.4	44.2	8.9	18.4	2.9	9.7	11.0
1941	100.0	1.4	4.6	47.2	8.5	16.8	2.7	8.7	10.0
1942	100.0	1.3	4.1	50.0	8.2	15.3	2.4	8.3	10.4
1943	100.0	1.1	3.1	53.3	7.9	13.8	2.1	7.7	10.9
1944	100.0	1.1	2.3	53.2	8.2	14.1	2.2	7.9	11.0
1945	100.0	1.1	2.5	50.4	8.6	14.8	2.4	8.7	11.6
1946	100.0	1.1	4.0	47.0	8.7	16.2	2.6	9.5	11.0
1947	100.0	1.1	4.5	46.9	8.4	16.9	2.6	9.6	10.0
1948	100.0	1.1	4.8	45.3	8.5	17.8	2.6	9.9	10.0
1949	100.0	1.1	4.8	43.0	8.2	19.0	2.8	10.4	10.8
1950	100.0	1.0	4.9	44.2	8.1	18.3	2.8	10.0	10.7
1951	100.0	.9	5.4	45.4	8.0	17.7	2.7	9.6	10.4
1952	100.0	.8	5.4	45.2	7.8	17.9	2.8	9.7	10.4
1953	100.0	.7	5.3	45.9	7.6	17.7	2.8	9.6	10.3
1954	100.0	.7	6.1	43.4	7.3	18.4	3.1	10.2	11.0
1955	100.0	.7	5.9	43.8	7.2	18.3	3.1	10.2	11.0
1956	100.0	.7	5.7	43.3	7.1	18.6	3.1	10.4	11.1
1957	100.0	.7	5.7	42.4	7.0	18.9	3.2	10.7	11.4
1958	100.0	.7	5.4	39.8	6.9	19.5	3.6	11.5	12.6
1959	100.0	.6	5.2	40.6	6.7	19.4	3.6	11.4	12.4
1960	100.0	.6	4.8	40.2	6.6	19.7	3.7	11.7	12.7
1961	100.0	.6	4.7	38.9	6.5	19.8	3.9	12.1	13.5
1962	100.0	.6	4.4	39.3	6.4	19.5	3.9	12.1	13.7
1963	100.0	.6	4.4	39.3	6.3	19.4	3.9	12.4	13.7
1964	100.0	.6	4.4	39.1	6.1	19.4	3.9	12.7	13.7
1965	100.0	.6	4.5	39.4	6.0	19.2	3.8	12.8	13.6
1966	100.0	.5	4.6	39.7	5.9	19.1	3.7	12.9	13.7
1967	100.0	.5	4.5	38.7	5.8	19.3	3.7	13.4	14.1
1968	100.0	.5	4.7	38.2	5.7	19.4	3.8	13.7	14.1
1969	100.0	.5	4.8	37.8	5.7	19.5	3.8	13.9	14.0
1970	100.0	.5	4.2	36.3	5.8	19.9	4.0	14.6	14.6
1971	100.0	.5	4.0	34.7	5.8	20.4	4.1	15.3	15.0
1972	100.0	.6	4.2	34.2	5.7	20.7	4.2	15.5	15.0
1973	100.0	.6	4.3	34.7	5.5	20.7	4.1	15.7	14.5
1974	100.0	.6	4.1	34.0	5.5	21.0	4.1	16.1	14.7
1975	100.0	.7	3.9	31.6	5.3	21.6	4.3	17.1	15.6
1976	100.0	.7	3.8	31.6	5.2	21.8	4.3	17.2	15.4
1977	100.0	.7	3.8	31.8	5.2	21.7	4.3	17.3	15.2
1978	100.0	.7	4.0	31.3	5.1	21.8	4.3	17.6	15.2
1979	100.0	.7	4.1	30.8	5.2	21.7	4.5	19.0	15.8
1981	100.0	.7	3.6	28.5	5.0	22.0	4.8	19.7	15.7
1982	100.0	.7	3.3	26.7	5.0	22.5	5.0	20.8	16.0
1983	100.0	.6	3.2	26.0	4.9	22.8	5.1	21.3	16.0
1984	100.0	.7	3.4	26.5	4.8	23.1	5.0	21.2	15.4
1985	100.0	.6	3.5	25.7	4.6	23.6	5.0	21.7	15.2
1986	100.0	.5	3.6	24.8	4.5	23.8	5.2	22.4	15.2
1987	100.0	.5	3.8	24.0	4.5	23.9	5.3	22.9	15.0
1988[b]	100.0	.4	3.9	23.6	4.5	24.1	5.3	23.2	14.9

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics

[b] Preliminary

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus, OH 43215 (5-25-89) RS 790.1-2.1
(March 1988 BM)

Nonagricultural Wage and Salary Employment in Ohio, Manufacturing and Nonmanufacturing, Since 1939[a]

Year	Employment (in thousands)					Manufacturing as Percent of Nonagricultural Employment	Durable Goods as Percent of Manufacturing Employment
	Nonagricultural Wage and Salary	Manufacturing			Nonmanufacturing		
		Total	Durable Goods	Nondurable Goods			
1939	1783.8	769.8	487.7	282.1	1014.1	43.2	63.4
1940	1906.6	843.6	554.4	289.2	1063.0	44.2	65.7
1941	2201.3	1039.4	719.2	320.2	1161.9	47.2	69.2
1942	2411.3	1204.9	862.8	342.1	1206.5	50.0	71.6
1943	2607.0	1390.1	1039.2	350.9	1216.9	53.3	74.8
1944	2558.0	1359.7	1013.9	345.8	1198.3	53.2	74.6
1945	2417.9	1218.2	879.9	338.3	1199.8	50.4	72.2
1946	2532.1	1190.0	818.4	371.6	1342.1	47.0	68.8
1947	2708.3	1269.3	894.1	375.2	1439.1	46.9	70.4
1948	2785.5	1261.7	887.6	374.1	1523.8	45.3	70.3
1949	2654.9	1142.2	783.5	358.7	1512.7	43.0	68.6
1950	2760.0	1220.0	847.7	372.3	1540.0	44.2	69.5
1951	2953.4	1339.5	954.5	385.0	1613.9	45.4	71.3
1952	3005.7	1357.3	973.1	384.2	1648.4	45.2	71.7
1953	3150.3	1446.9	1052.0	394.9	1703.4	45.9	72.7
1954	3028.4	1314.0	937.1	376.9	1714.4	43.4	71.3
1955	3128.9	1370.6	980.0	390.5	1758.3	43.8	71.5
1956	3219.7	1393.7	1002.0	391.7	1826.0	43.3	71.9
1957	3230.6	1370.9	984.7	386.2	1859.6	42.4	71.8
1958	3007.2	1198.3	828.9	369.4	1808.9	39.8	69.2
1959	3112.5	1264.5	886.8	377.8	1848.0	40.6	70.1
1960	3147.3	1264.8	889.8	375.0	1882.5	40.2	70.4
1961	3044.3	1183.2	821.6	361.5	1861.2	38.9	69.4
1962	3099.2	1218.2	853.6	364.7	1881.0	39.3	70.1
1963	3145.2	1236.6	869.6	367.1	1908.5	39.3	70.3
1964	3216.3	1259.1	887.1	372.0	1957.3	39.1	70.5
1965	3364.3	1326.0	941.7	384.3	2038.3	39.4	71.0
1966	3537.3	1404.4	1004.7	399.8	2132.8	39.7	71.5
1967	3619.8	1401.4	998.6	402.8	2218.3	38.7	71.3
1968	3750.8	1433.5	1021.8	411.7	2317.3	38.2	71.3
1969	3887.3	1471.0	1052.7	418.2	2416.3	37.8	71.6
1970	3880.7	1409.9	1002.5	407.4	2470.7	36.3	71.1
1971	3839.6	1333.8	963.1	397.7	2505.7	34.7	70.2
1972	3938.4	1346.8	948.8	398.0	2591.5	34.2	70.4
1973	4112.9	1426.3	1018.2	408.1	2686.6	34.7	71.4
1974	4169.4	1416.6	1013.1	403.5	2752.8	34.0	71.5
1975	4016.2	1267.5	892.4	375.1	2748.7	31.6	70.4
1976	4094.6	1295.3	910.6	384.6	2799.3	31.6	70.3
1977	4230.1	1344.1	945.2	398.9	2886.0	31.8	70.3
1978	4394.9	1377.2	974.5	402.7	3017.7	31.3	70.8
1979	4484.8	1382.3	980.5	401.8	3102.5	30.8	70.9
1980	4367.4	1264.3	882.6	381.8	3103.0	28.9	69.8
1981	4317.7	1232.6	860.4	372.2	3085.1	28.5	69.8
1982	4124.3	1099.9	752.4	347.5	3024.4	26.7	68.4
1983	4092.5	1066.0	723.6	342.4	3026.5	26.0	67.9
1984	4260.2	1127.0	773.4	353.6	3133.1	26.5	68.6
1985	4372.9	1124.2	768.7	355.5	3248.6	25.7	68.4
1986	4471.4	1109.8	752.7	357.1	3361.6	24.8	67.8
1987	4582.6	1098.9	740.4	358.4	3483.7	24.0	67.4
1988[b]	4683.0	1103.1	743.6	359.6	3579.8	23.6	67.4

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Includes full- and part-time wage and salaried workers employed during pay periods including the 12th of the month. Excludes self-employed, domestics, and armed forces. Subtotals may not add to totals because of rounding.

[b] Preliminary.

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus, OH 43215 (5-25-89) RS 790 1-1
(March 1988 BM)

NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN OHIO, 1988[a]
(in thousands)

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
TOTAL	4683.0	4546.1	4549.1	4586.2	4642.7	4692.3	4715.4	4678.8	4679.1	4731.7	4757.7	4834.7	4781.8
MANUFACTURING	1103.1	1094.7	1092.3	1089.6	1098.5	1100.5	1107.6	1100.8	1102.1	1110.5	1110.3	1115.7	1115.1
Durable Goods[b]	743.6	738.5	737.2	733.9	741.8	743.2	746.9	741.5	740.5	745.6	747.8	753.3	752.5
Lumber and wood products	22.0	20.3	20.3	20.5	21.2	21.8	22.3	22.7	22.8	23.1	23.2	23.3	23.1
Furniture and fixtures	15.1	14.9	15.0	15.1	14.9	15.0	15.4	15.2	14.9	15.2	15.1	15.0	15.0
Stone, clay, and glass products	47.8	46.1	46.3	46.9	47.6	48.0	48.7	48.6	48.7	48.3	48.2	48.4	47.8
Glass and glassware, pressed or blown	8.7	8.6	8.9	8.7	8.7	8.7	8.8	8.6	8.7	8.6	8.7	8.8	8.7
Primary metal industries	99.9	98.0	98.7	99.3	99.1	100.0	100.3	98.5	99.1	101.1	100.9	101.6	102.0
Blast furnace and basic steel products	45.7	45.3	45.8	45.7	45.6	46.0	45.7	45.8	45.8	45.6	45.3	45.9	46.0
Iron and steel foundries	19.7	19.1	19.2	19.4	19.1	19.6	19.8	19.4	19.3	20.3	20.2	20.4	20.4
Nonferrous rolling and drawing	17.5	16.8	17.5	17.2	17.5	17.5	17.8	16.6	17.4	18.0	18.1	18.0	18.1
Fabricated metal products	133.0	131.5	131.7	132.4	133.0	133.5	134.5	132.7	131.5	133.3	133.5	134.4	134.8
Cutlery, hand tools, and hardware	10.1	10.1	9.8	9.9	10.1	10.2	10.3	10.1	10.0	10.2	10.2	10.2	10.2
Fabricated structural metal products	28.2	28.8	28.3	28.2	28.0	28.1	28.2	28.1	27.3	28.3	28.2	28.4	28.5
Metal forgings and stampings	41.3	39.9	40.8	41.3	41.7	41.8	42.2	41.1	40.3	41.3	41.4	41.8	41.7
Machinery, except electrical	158.7	156.4	155.8	156.8	157.7	157.1	158.2	158.8	158.6	159.9	160.4	161.7	162.7
Construction and related machinery	13.5	13.4	13.4	13.2	13.4	13.4	13.6	13.6	13.8	13.6	13.5	13.4	13.5
Metalworking machinery	41.4	41.2	40.7	41.0	40.9	41.0	41.3	41.5	41.5	41.5	41.8	42.0	42.3
Special industry machinery	17.4	16.8	16.4	16.6	16.9	17.1	17.2	17.3	17.7	17.9	18.0	18.2	18.3
General industrial machinery	28.2	27.8	28.0	28.1	28.1	28.1	28.1	28.2	28.1	28.4	28.4	28.7	28.6
Office and computing machines	12.8	13.1	13.1	13.2	13.0	12.8	12.9	12.9	12.7	12.7	12.5	12.6	12.5
Refrigeration and service machinery	16.0	15.9	15.8	15.9	16.3	15.9	16.0	16.0	15.7	16.1	16.1	16.3	16.4
Electric and electronic equipment	86.3	86.4	86.7	86.1	86.0	86.1	86.4	85.4	86.0	86.0	86.6	86.9	86.8
Electrical industrial apparatus	17.0	16.5	16.8	16.6	16.7	16.9	17.2	16.3	17.3	17.4	17.4	17.5	17.4
Household appliances	15.9	15.8	15.7	15.6	15.8	15.9	16.2	16.1	15.9	15.9	16.0	16.2	16.3
Electric lighting and wiring equipment	17.2	17.1	17.3	17.2	17.1	17.1	17.2	16.6	17.0	17.2	17.6	17.4	17.5
Communication equipment	9.4	9.5	9.4	9.4	9.4	9.5	9.5	9.5	9.5	9.3	9.3	9.3	9.2
Transportation equipment	141.8	144.0	144.5	137.5	143.4	143.7	141.5	140.5	140.5	139.4	140.6	142.6	140.9
Motor vehicles and equipment	95.2	95.6	95.2	95.7	95.6	95.5	95.4	94.2	93.8	94.1	95.7	96.4	94.9
Aircraft and parts	38.0	41.5	40.6	33.5	37.1	38.7	38.6	38.6	38.4	36.7	36.2	37.6	37.4
Instruments and related products	24.3	24.0	24.1	24.1	24.3	24.1	24.3	24.1	24.2	24.2	24.3	24.5	24.6
Measuring and controlling devices	13.4	13.4	13.5	13.4	13.4	13.3	13.4	13.2	13.3	13.3	13.3	13.4	13.4
Nondurable Goods[c]	359.6	356.2	355.1	355.8	356.7	357.3	360.7	359.4	361.6	364.9	362.5	362.3	362.6
Food and kindred products	62.5	61.1	60.5	60.9	61.0	61.3	62.4	62.2	63.7	66.4	63.9	63.4	63.4
Meat products	8.8	8.5	8.7	8.7	8.8	8.7	8.9	8.8	9.0	8.9	8.6	8.7	8.9
Dairy products	9.6	9.4	9.3	9.5	9.5	9.6	9.7	9.7	9.8	9.7	9.8	9.6	9.6
Preserved fruits and vegetables	11.6	11.1	10.9	10.8	11.0	11.0	11.4	10.8	11.7	14.4	12.6	12.0	11.9
Bakery products	9.5	9.1	9.2	9.4	9.4	9.4	9.5	9.6	9.7	9.8	9.5	9.4	9.6
Beverages	9.2	9.1	9.0	9.0	9.1	9.3	9.2	9.5	9.5	9.4	9.3	9.1	9.1
Apparel and other textile products	15.4	15.1	15.1	15.1	15.8	15.3	15.1	15.2	15.3	15.6	15.7	15.9	16.0

See footnotes at end of table.

NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN OHIO, 1988[a] (continued)
(in thousands)

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
Paper and allied products	37.1	37.1	37.0	37.0	37.2	37.2	37.3	37.2	37.0	36.9	37.1	37.3	37.5
Misc. converted paper products	12.0	11.8	11.8	11.8	11.9	11.9	12.0	11.8	11.9	12.2	12.1	12.2	12.2
Paperboard containers and boxes	13.1	13.1	13.0	13.0	13.2	13.1	13.1	13.2	13.1	13.0	13.0	13.1	13.2
Printing and publishing	71.5	71.6	71.4	71.3	71.0	70.7	71.3	71.3	71.4	71.8	72.0	72.0	72.3
Newspapers	18.8	18.8	18.8	18.8	18.6	18.6	18.8	18.8	18.8	18.9	18.9	19.0	19.0
Commercial printing	28.0	27.7	27.8	28.0	27.8	27.7	27.9	27.9	27.9	28.2	28.3	28.3	28.4
Chemicals and allied products	64.5	63.9	64.0	64.1	64.2	64.3	64.9	65.2	65.4	65.2	64.4	64.1	64.4
Industrial inorganic chemicals	9.0	9.2	9.1	9.2	9.1	9.1	9.1	9.1	9.1	9.1	8.5	8.4	8.6
Rubber and misc. plastics products	90.8	90.0	90.1	90.1	90.7	90.7	91.4	90.0	90.6	90.9	91.5	91.8	91.5
Tires and inner tubes	14.7	14.5	14.5	14.5	14.6	14.6	14.7	14.8	14.8	14.8	14.8	14.8	14.5
Miscellaneous plastics products	55.9	55.4	55.5	55.6	56.0	55.9	56.3	55.2	55.8	56.1	56.5	56.6	56.6
NONMANUFACTURING	3579.8	3451.4	3456.8	3496.6	3544.3	3591.8	3607.8	3578.0	3577.0	3621.2	3647.4	3719.0	3666.6
MINING	19.5	19.4	18.9	18.8	19.1	19.2	19.6	19.8	19.8	19.8	19.8	19.7	19.5
Bituminous coal and lignite mining	8.0	8.2	8.1	7.9	7.8	7.8	8.1	8.0	7.9	8.0	7.9	7.9	7.8
Oil and gas extraction	6.7	7.1	6.9	6.6	6.3	6.4	6.6	6.8	6.7	6.7	6.7	6.8	6.9
CONSTRUCTION	183.6	154.1	150.4	159.8	172.7	182.8	191.2	199.5	202.5	202.0	203.0	197.4	188.0
General building contractors	47.1	41.5	40.3	41.7	44.5	46.4	48.9	50.8	51.1	50.5	50.8	50.1	48.6
Heavy construction contractors	22.9	15.9	15.2	17.3	20.7	24.1	25.5	26.8	27.2	27.6	27.3	25.4	22.0
Highway and street construction	8.5	4.6	4.3	5.2	7.2	9.2	10.2	10.7	11.0	11.2	10.8	9.8	7.6
Special trade contractors	113.6	96.6	94.9	100.8	107.5	112.2	116.8	121.9	124.2	123.9	124.9	121.9	117.4
TRANSPORTATION AND PUBLIC UTILITIES	211.5	205.3	205.2	206.6	209.4	211.5	213.1	213.4	213.9	214.8	215.0	214.7	215.3
Railroad transportation	13.2	12.9	12.7	12.8	13.2	13.6	13.6	13.6	13.6	13.5	13.3	12.9	13.2
Transportation, except railroads	109.7	104.2	104.4	105.5	107.8	109.4	110.4	110.4	110.9	112.3	113.4	113.7	114.3
Trucking and warehousing	75.3	72.0	72.4	73.1	73.9	74.7	75.5	75.8	76.1	76.9	77.3	77.7	78.5
Communication, electric, gas services	88.5	88.1	88.1	88.3	88.3	88.5	89.2	89.5	89.5	89.0	88.2	88.1	87.9
Communication	46.8	46.8	46.8	46.8	46.8	46.9	47.1	47.1	47.1	47.0	46.5	46.4	46.1
Electric, gas, and sanitary services	41.8	41.4	41.3	41.4	41.5	41.6	42.1	42.4	42.3	42.0	41.8	41.7	41.8
WHOLESALE TRADE	254.3	248.2	248.3	249.8	251.6	253.5	255.8	256.1	256.3	256.5	258.4	258.5	259.1
Wholesale trade durable goods	161.2	157.5	157.7	158.4	159.5	160.5	161.9	162.4	162.7	162.7	163.6	163.6	163.9
Motor vehicles & automotive equipment	22.5	22.2	22.1	22.2	22.4	22.6	22.8	22.7	22.7	22.6	22.7	22.6	22.6
Electrical goods	18.4	18.4	18.4	18.5	18.3	18.4	18.4	18.5	18.4	18.2	18.4	18.5	18.5
Machinery, equipment, and supplies	69.0	67.5	67.7	68.1	68.5	68.8	69.2	69.3	69.5	69.6	69.8	69.9	69.9
Wholesale trade nondurable goods	93.1	90.6	90.6	91.4	92.1	93.0	93.9	93.7	93.6	93.8	94.9	94.8	95.3
Groceries and related products	29.9	29.1	29.1	29.3	29.4	29.7	30.2	30.1	30.1	30.1	30.4	30.5	30.6
RETAIL TRADE	876.5	847.1	837.6	845.7	859.6	873.2	879.7	881.1	886.2	888.2	891.8	906.0	921.4
General merchandise stores	121.0	123.0	116.7	116.4	116.2	116.8	117.3	117.6	118.6	119.8	123.2	130.3	136.5
Department stores	104.1	106.4	100.7	100.1	100.2	100.5	101.0	101.1	101.8	102.8	105.4	111.8	117.4
Food stores	139.3	135.6	135.0	135.3	136.4	137.7	138.4	139.2	139.8	141.3	141.9	144.3	147.1
Automobile dealers and service stations	95.5	92.2	92.6	93.6	94.8	95.4	96.4	96.8	97.1	97.0	96.9	96.5	96.2
Apparel and accessory stores	44.7	43.5	42.4	42.8	43.1	43.5	43.7	43.9	44.8	45.0	45.9	47.5	50.0
Eating and drinking places	300.0	283.1	283.4	288.5	297.2	304.9	308.3	307.9	309.4	308.2	303.6	302.4	302.5

See footnotes at end of table.

NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN OHIO, 1988[a] (continued)
(in thousands)

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
FINANCE, INSURANCE, AND REAL ESTATE	249.8	244.6	244.8	246.1	247.5	249.0	251.4	252.8	253.3	251.8	252.1	252.1	252.4
Banking	63.8	62.9	62.9	63.2	63.3	63.5	64.0	64.5	64.7	64.2	64.1	64.0	64.2
Credit agencies other than banks	38.2	37.9	37.8	37.9	38.2	38.3	38.5	38.7	38.5	38.2	37.9	38.0	38.1
Insurance carriers	69.8	69.2	69.3	69.4	69.5	69.5	69.9	69.8	70.0	69.9	70.3	70.5	70.5
Life insurance	25.8	25.7	25.7	25.7	25.7	25.8	25.9	25.7	25.7	25.7	25.9	26.0	26.1
Fire, marine, and casualty insurance..	31.0	30.6	30.7	30.8	30.9	30.8	31.0	31.3	31.3	31.2	31.1	31.2	31.2
SERVICES	1087.8	1040.6	1049.4	1061.5	1079.8	1092.8	1104.1	1103.1	1104.7	1109.8	1105.1	1102.1	1101.0
Hotels and other lodging places	36.2	33.4	33.8	34.1	35.2	36.5	37.7	38.3	38.7	37.5	36.6	36.2	35.9
Personal services	57.0	56.5	57.3	57.8	58.4	56.3	56.4	56.1	56.4	56.7	57.2	57.3	57.5
Laundry, cleaning, & garment services.	18.8	18.2	18.1	18.3	18.6	18.7	18.8	18.8	18.8	19.0	19.3	19.3	19.2
Business services	222.3	210.2	211.6	214.2	217.2	219.9	222.4	226.0	228.0	228.7	229.6	229.7	230.3
Services to buildings	31.6	29.8	30.3	30.6	31.0	31.4	31.9	32.2	32.5	32.3	32.2	32.2	32.3
Computer and data processing services.	21.7	21.0	21.0	21.1	21.1	21.3	21.4	21.9	22.0	22.0	22.2	22.3	22.4
Amusement and recreation services	41.4	28.5	28.5	31.3	38.8	48.4	54.5	55.3	55.3	51.4	38.2	34.1	32.5
Health services	370.3	364.8	365.1	365.9	366.5	367.2	369.9	372.5	373.2	373.4	374.2	374.5	376.3
Nursing and personal care facilities..	81.5	79.9	80.0	80.0	80.7	81.1	81.5	81.9	82.4	82.6	82.5	82.6	82.9
Hospitals	182.2	181.1	181.1	181.3	180.9	180.7	182.0	183.3	183.0	182.9	183.1	183.1	183.8
Educational services	61.8	62.2	66.1	66.2	65.8	62.9	57.9	49.9	48.7	60.3	66.5	68.2	66.6
Colleges and universities	33.4	33.6	37.1	36.8	36.4	33.3	29.3	24.7	24.0	32.4	37.5	38.9	37.1
GOVERNMENT	696.8	692.2	702.1	708.3	705.2	709.9	692.9	652.2	640.3	678.3	702.2	768.5	710.0
Federal government	94.5	94.3	94.3	94.6	94.3	94.3	94.8	94.5	94.5	94.2	94.4	94.7	95.7
State government	155.7	154.2	159.4	162.7	162.6	162.5	153.9	139.8	135.7	146.4	161.6	164.3	165.4
State government education[d]	81.3	80.2	86.5	88.7	88.0	87.9	78.0	63.2	59.8	71.9	88.3	91.1	91.6
State government, except education ...	74.4	74.0	72.9	74.0	74.6	74.5	75.8	76.6	75.9	74.5	73.3	73.2	73.8
Local government	446.6	443.6	448.4	451.1	448.3	453.2	444.3	417.9	410.2	437.6	446.1	509.5	448.9
Local government education	256.0	262.3	267.2	269.8	266.1	268.8	254.3	223.8	217.6	251.2	261.1	265.3	264.8
Local government, except education ...	190.6	181.3	181.2	181.3	182.2	184.4	190.0	194.1	192.6	186.4	185.0	244.2	184.1

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Based on March 1988 benchmark. Includes full- and part-time wage and salaried workers employed during pay periods which include the 12th of the month. Excludes self-employed, domestics, and armed forces. Subtotals may not add to totals, because of rounding or exclusion of minor groups. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; petroleum and coal products; leather and leather products. [d] Includes State universities, State schools for deaf and blind, and the State library. Excludes hospitals, the agricultural extension service, agricultural research centers, and the Ohio Department of Education. [e] Depressed due to labor-management disputes.

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus 43216 4-1-89 RS-790-1-0 (1988)

NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN OHIO, 1987[a]
(in thousands)

Industry	1987 Average	January	February	March	April	May	June	July	August	September	October	November	December
TOTAL	4582.6	4447.5	4458.4	4485.5	4539.5	4592.2	4611.6	4577.9	4586.8	4637.3	4672.0	4686.4	4696.2
MANUFACTURING	1098.9	1087.0	1088.8	1087.1	1093.4	1095.5	1098.6	1091.2	1101.0	1109.5	1109.9	1111.6	1112.8
Durable Goods[b]	740.4	734.3	736.1	733.8	738.8	739.4	740.1	731.4	738.4	745.8	747.3	749.7	750.4
Lumber and wood products	19.9	17.8	17.9	18.5	19.4	19.7	20.0	20.5	20.7	20.9	21.3	21.3	21.1
Furniture and fixtures	14.6	14.1	14.0	14.1	14.3	14.3	14.6	14.6	14.7	15.0	15.3	15.2	15.2
Stone, clay, and glass products	48.4	47.1	46.9	47.3	47.8	48.3	48.9	48.6	49.1	49.2	49.4	49.0	48.8
Glass and glassware, pressed or blown	9.9	10.5	10.4	10.3	10.1	10.1	10.2	9.5	9.8	9.7	9.5	9.4	9.3
Primary metal industries	95.8	92.4	93.7	94.8	94.8	94.3	95.1	94.7	95.9	97.2	98.2	99.0	99.1
Blast furnace and basic steel products	43.4	41.0	41.9	42.6	42.8	42.7	43.1	43.5	43.8	44.1	44.5	45.1	45.5
Iron and steel foundries	19.4	19.5	19.5	19.7	19.4	19.2	19.1	19.4	19.0	19.2	19.2	19.5	19.6
Nonferrous rolling and drawing	17.1	16.8	16.9	17.1	17.1	16.8	17.0	16.2	17.0	17.6	17.7	17.6	17.2
Fabricated metal products	132.6	132.8	132.4	132.7	132.9	133.0	134.0	129.4	129.8	130.8	134.2	134.5	134.6
Cutlery, hand tools, and hardware	9.7	9.7	9.5	9.6	9.6	9.6	9.6	9.5	9.7	9.8	10.0	10.2	10.2
Fabricated structural metal products	29.0	28.4	27.9	28.2	28.8	29.3	29.3	29.4	29.4	29.3	29.7	29.4	29.4
Metal forgings and stampings	41.6	42.9	43.0	43.2	42.9	42.6	43.0	38.3	38.5	39.0	41.6	41.8	41.8
Machinery, except electrical	155.2	154.6	153.8	153.7	154.2	154.8	155.5	155.1	154.9	155.9	156.3	156.5	157.4
Construction and related machinery	12.7	12.5	12.2	12.2	12.4	12.5	12.6	12.8	12.8	13.0	13.2	13.3	13.4
Metalworking machinery	40.4	40.3	40.1	40.0	39.9	40.1	40.3	40.4	40.3	40.5	40.7	40.8	41.1
Special industry machinery	16.6	16.1	16.2	16.2	16.3	16.5	16.7	16.6	16.7	17.0	16.9	16.9	17.1
General industrial machinery	27.8	28.0	27.5	27.4	27.7	27.7	27.8	27.7	27.7	27.8	27.7	27.9	28.2
Office and computing machines	13.4	13.4	13.3	13.3	13.3	13.5	13.6	13.6	13.5	13.4	13.4	13.2	13.2
Refrigeration and service machinery	16.3	16.2	16.2	16.3	16.3	16.4	16.4	16.2	16.4	16.6	16.4	16.2	16.2
Electric and electronic equipment	86.7	88.1	87.7	86.8	86.1	86.1	86.1	86.0	86.3	86.7	86.5	86.8	87.2
Electrical industrial apparatus	16.2	16.0	16.1	15.8	15.8	15.9	16.1	16.1	16.3	16.4	16.6	16.8	17.0
Household appliances	16.4	17.2	17.0	16.8	16.1	16.3	16.4	16.4	16.4	16.5	16.2	16.0	16.1
Electric lighting and wiring equipment	17.0	17.5	17.4	17.3	17.2	17.1	17.1	16.9	16.6	16.7	16.7	16.8	16.9
Communication equipment	10.0	10.5	10.4	10.4	10.2	10.1	10.0	9.9	9.9	9.8	9.8	9.7	9.6
Transportation equipment	149.5	151.1	153.3	149.2	152.6	151.9	148.7	144.6	148.6	151.3	147.0	148.1	147.5
Motor vehicles and equipment	95.5	94.8	97.5	93.9	97.2	97.0	94.1	90.7	95.1	98.2	94.4	96.5	96.8
Aircraft and parts	44.7	47.0	46.4	46.0	46.1	45.4	44.9	44.6	44.2	43.8	43.4	42.6	41.7
Instruments and related products	23.5	22.8	22.8	22.9	22.9	23.0	23.2	23.6	23.9	24.1	24.3	24.4	24.5
Measuring and controlling devices	13.2	12.6	12.6	12.6	12.7	12.8	13.0	13.3	13.5	13.6	13.8	13.9	13.9
Nondurable Goods[c]	358.4	352.7	352.7	353.2	354.6	356.2	358.5	359.8	362.6	363.7	362.6	361.9	362.4
Food and kindred products	63.1	61.8	61.3	61.7	61.8	62.1	62.8	63.9	66.1	66.6	63.9	62.7	62.8
Meat products	9.6	9.5	9.4	9.5	9.5	9.4	9.7	9.8	9.7	9.8	9.5	9.5	9.5
Dairy products	10.0	9.9	10.0	10.1	10.1	10.2	10.4	10.3	10.2	10.1	9.8	9.7	9.6
Preserved fruits and vegetables	11.2	10.6	10.1	10.2	10.3	10.3	10.2	10.7	13.2	14.0	12.0	11.1	11.3
Bakery products	9.1	8.7	8.7	8.8	9.0	9.0	8.9	9.3	9.4	9.3	9.2	9.2	9.2
Beverages	9.5	9.4	9.5	9.4	9.3	9.4	9.7	9.9	9.8	9.5	9.2	9.2	9.3
Apparel and other textile products	15.5	15.4	15.6	15.7	15.7	15.8	15.8	15.1	15.1	15.3	15.6	15.6	15.4

See footnotes at end of table.

2.

NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN OHIO, 1987[e] (continued)
(in thousands)

Industry	1987 Average	January	February	March	April	May	June	July	August	September	October	November	December
Paper and allied products	37.0	36.4	36.5	36.4	36.5	36.6	37.1	37.1	37.3	37.4	37.3	37.3	37.7
Misc. converted paper products	11.9	11.8	11.8	11.7	11.7	11.8	12.0	12.1	12.0	12.1	12.1	12.1	12.2
Paperboard containers and boxes	12.8	12.3	12.4	12.5	12.5	12.6	12.8	12.8	12.9	13.0	13.0	13.0	13.1
Printing and publishing	70.5	68.8	68.9	68.8	69.6	69.9	70.1	70.9	71.0	70.7	71.9	72.3	72.7
Newspapers	19.2	19.3	19.3	19.2	19.1	19.2	19.1	19.2	19.1	19.1	19.3	19.4	19.6
Commercial printing	26.7	25.6	25.7	25.9	26.1	26.2	26.4	26.8	27.0	27.1	27.5	27.8	28.0
Chemicals and allied products	63.4	61.6	61.9	62.2	62.7	63.3	63.9	64.4	64.2	64.0	64.1	64.2	64.5
Industrial inorganic chemicals	9.3	9.3	9.3	9.4	9.4	9.3	9.3	9.4	9.3	9.3	9.3	9.3	9.3
Rubber and misc. plastics products	91.9	92.7	92.5	92.2	91.8	91.5	91.6	91.0	91.4	92.1	92.3	92.2	91.6
Tires and inner tubes	16.6	17.9	17.6	17.4	17.0	16.7	16.8	16.8	16.4	16.1	15.7	15.6	15.3
Miscellaneous plastics products	55.0	54.5	54.5	54.6	54.4	54.4	54.5	54.2	54.9	55.7	56.2	56.1	56.1
NONMANUFACTURING	3483.7	3360.6	3369.6	3398.4	3446.1	3496.6	3513.0	3486.7	3485.8	3527.8	3562.1	3574.9	3583.4
MINING	20.9	21.4	21.1	20.7	20.6	20.6	20.9	20.8	20.8	20.8	21.0	21.0	20.8
Bituminous coal and lignite mining	9.1	9.7	9.7	9.5	9.4	9.2	9.2	8.8	8.8	8.7	8.8	8.8	8.8
Oil and gas extraction	7.1	7.5	7.3	7.0	6.7	6.7	6.8	7.0	7.1	7.1	7.2	7.3	7.3
CONSTRUCTION	176.4	147.5	143.9	150.4	162.3	175.5	184.6	194.5	195.3	194.5	196.0	190.5	182.0
General building contractors	44.6	39.2	38.2	39.4	41.2	43.6	45.9	48.6	48.6	48.3	48.3	47.5	46.4
Heavy construction contractors	23.1	15.1	14.7	16.5	20.1	24.4	25.8	28.0	28.3	28.0	27.8	26.1	22.5
Highway and street construction	9.4	4.9	4.8	5.6	7.8	10.5	11.2	12.4	12.5	12.3	11.9	10.8	7.9
Special trade contractors	108.7	93.1	90.9	94.4	100.9	107.5	112.9	118.0	118.5	118.2	119.9	117.0	113.2
TRANSPORTATION AND PUBLIC UTILITIES	207.8	201.7	201.7	202.5	204.8	207.0	208.5	210.4	210.5	211.5	211.9	211.8	211.8
Railroad transportation	14.0	13.8	13.6	13.5	14.1	14.4	14.5	14.4	14.4	14.2	14.1	13.6	13.3
Transportation, except railroads	104.4	98.0	98.3	99.3	101.7	103.6	104.8	105.5	105.9	107.5	108.6	109.0	110.1
Trucking and warehousing	72.8	68.7	69.0	69.7	70.6	71.8	72.9	73.7	74.1	74.9	75.3	75.9	77.0
Communication, electric, gas services ..	89.5	89.9	89.7	89.7	89.0	89.0	89.2	90.6	90.2	89.8	89.3	89.1	88.5
Communication	47.5	48.3	48.2	48.1	47.2	47.1	47.1	47.7	47.3	47.4	47.2	47.2	46.7
Electric, gas, and sanitary services..	42.0	41.6	41.5	41.7	41.8	41.8	42.1	42.8	42.9	42.5	42.0	42.0	41.7
WHOLESALE TRADE	248.0	242.4	243.0	244.1	245.8	247.4	249.3	249.1	249.0	249.2	252.2	251.9	252.7
Wholesale trade-durable goods	156.2	152.3	152.9	153.4	154.7	155.9	157.0	157.3	157.3	157.3	158.7	158.7	159.0
Motor vehicles & automotive equipment.	21.6	21.3	21.3	21.3	21.5	21.7	21.9	21.7	21.6	21.6	21.9	21.9	21.9
Electrical goods	19.0	19.2	19.2	19.3	19.1	19.1	19.0	19.0	18.9	18.8	18.8	18.7	18.6
Machinery, equipment, and supplies ...	67.1	65.8	66.2	66.2	66.6	66.9	67.2	67.5	67.5	67.4	67.9	68.0	68.1
Wholesale trade-nondurable goods	91.8	90.1	90.1	90.7	91.1	91.5	92.3	91.8	91.7	91.8	93.6	93.2	93.7
Groceries and related products	29.1	28.3	28.2	28.4	28.5	28.7	29.4	29.1	29.2	29.4	30.2	30.1	30.3
RETAIL TRADE	848.3	818.5	811.7	818.6	831.0	846.2	852.0	852.5	856.7	858.0	862.8	877.7	893.9
General merchandise stores	119.2	120.1	114.7	114.6	114.5	115.4	115.1	115.8	116.9	117.7	121.1	129.3	135.1
Department stores	103.9	105.6	100.4	100.2	100.2	100.7	100.4	100.8	101.7	102.3	104.9	112.2	117.3
Food stores	132.3	128.2	128.1	128.2	129.3	130.7	131.5	132.4	132.1	134.0	134.8	137.5	140.7
Automobile dealers and service stations.	92.9	90.3	90.5	90.7	91.9	92.7	94.1	94.4	94.6	94.2	94.2	93.7	93.5
Apparel and accessory stores	42.0	41.4	40.1	40.2	40.5	40.9	40.9	40.9	41.9	42.1	43.0	44.7	47.2
Eating and drinking places	296.5	280.1	281.3	286.4	294.0	302.2	305.4	303.9	305.5	303.8	299.3	297.8	298.2

See footnotes at end of table.

NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN OHIO, 1987[a] (continued)
(in thousands)

Industry	1987 Average	January	February	March	April	May	June	July	August	September	October	November	December
FINANCE, INSURANCE, AND REAL ESTATE	243.8	236.6	237.5	238.5	240.2	242.3	245.5	247.4	247.8	246.9	247.5	247.2	247.9
Banking	63.2	62.3	62.2	62.3	62.4	62.7	63.4	63.7	63.9	63.7	63.8	63.7	63.9
Credit agencies other than banks	37.4	36.4	36.5	36.6	37.1	37.3	37.7	38.0	37.9	37.7	37.6	37.6	37.8
Insurance carriers	68.4	66.7	67.2	67.6	67.4	67.9	68.4	68.8	69.0	69.1	69.5	69.8	69.8
Life insurance	25.7	25.7	25.8	25.8	25.7	25.7	25.9	25.5	25.5	25.6	25.8	25.8	25.9
Fire, marine, and casualty insurance..	30.2	29.1	29.3	29.6	29.5	29.7	30.0	30.7	30.7	30.7	30.7	30.9	30.8
SERVICES	1051.2	1003.5	1013.5	1021.8	1040.9	1052.8	1064.6	1066.5	1066.9	1074.8	1073.5	1069.0	1066.7
Hotels and other lodging places	34.6	31.8	32.0	32.3	33.5	34.7	36.2	36.7	37.0	36.1	35.4	35.0	34.8
Personal services	56.4	56.4	57.0	57.6	58.2	55.6	55.7	55.5	55.4	56.0	56.2	56.0	56.9
Laundry, cleaning, & garment services.	18.8	18.2	18.1	18.3	18.6	18.7	18.9	19.0	19.0	19.0	19.2	19.2	19.2
Business services	210.2	198.9	200.2	201.8	204.2	206.3	209.5	213.1	214.4	215.3	219.4	219.8	219.5
Services to buildings	29.8	28.3	28.5	28.6	29.0	29.5	29.9	30.2	30.6	30.7	30.7	30.9	30.9
Computer and data processing services.	19.3	18.7	19.0	18.7	18.4	18.6	19.0	19.4	19.5	19.8	20.1	20.4	20.8
Amusement and recreation services	41.0	28.1	28.6	30.5	38.2	47.2	53.5	53.8	53.8	51.9	38.3	34.6	33.3
Health services	360.2	351.8	352.9	354.4	356.0	357.1	359.7	362.8	363.9	364.1	366.2	366.0	367.3
Nursing and personal care facilities..	79.3	77.3	77.4	77.9	78.7	79.1	79.6	79.9	80.3	80.6	80.3	80.3	80.6
Hospitals	177.4	173.4	173.9	174.4	175.0	175.5	177.0	179.0	179.6	179.3	180.5	180.7	180.7
Educational services	60.9	61.6	65.6	64.9	64.5	61.4	56.2	50.7	49.9	60.2	65.2	66.4	64.4
Colleges and universities	33.0	33.7	37.2	36.2	35.8	32.6	28.4	25.6	25.1	32.5	36.4	37.2	35.2
GOVERNMENT	687.3	689.0	697.2	701.9	700.5	704.8	687.6	645.5	638.9	672.2	697.2	705.8	707.6
Federal government	94.8	94.3	94.0	94.1	94.7	94.6	95.2	95.2	95.5	95.0	94.3	94.9	95.9
State government	152.7	153.5	156.7	159.3	159.2	158.9	149.9	137.6	133.8	143.1	158.2	160.5	162.1
State government education[d]	78.7	80.5	84.5	85.8	84.9	85.1	74.5	61.9	57.3	68.6	85.1	87.5	88.9
State government, except education ...	74.0	73.0	72.2	73.5	74.2	73.8	75.3	75.7	76.5	74.5	73.1	73.0	73.2
Local government	439.8	441.2	446.5	448.5	446.6	451.2	442.6	412.7	409.6	434.1	444.7	450.4	449.6
Local government education	254.8	260.2	265.6	267.2	264.2	266.0	252.4	218.9	217.5	248.2	262.3	267.7	267.4
Local government, except education ...	185.0	180.9	180.9	181.3	182.4	185.2	190.1	193.8	192.1	185.8	182.4	182.7	182.2

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Based on March 1988 benchmark. Includes full- and part-time wage and salaried workers employed during pay periods which include the 12th of the month. Excludes self-employed, domestics, and armed forces. Subtotals may not add to totals, because of rounding or exclusion of minor groups. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; petroleum and coal products; leather and leather products. [d] Includes State universities, State schools for deaf and blind, and the State library. Excludes hospitals, the agricultural extension service, agricultural research centers, and the Ohio Department of Education. [e] Depressed due to labor-management disputes.

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus 43216 4-1-89 RS-790-1-0 (1987)

AVERAGE HOURLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS IN OHIO, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	$12.00	$11.86	$11.86	$11.91	$12.02	$12.01	$12.05	$11.88	$11.91	$12.05	$12.08	$12.17	$12.20
Durable Goods[b]	12.41	12.23	12.27	12.31	12.43	12.42	12.48	12.25	12.30	12.48	12.51	12.62	12.62
Lumber and wood products	7.65	7.27	7.41	7.51	7.57	7.60	7.62	7.69	7.69	7.69	7.79	7.96	7.84
Furniture and fixtures	8.98	8.80	8.89	8.90	8.82	8.92	8.87	8.94	9.15	9.14	8.99	9.14	9.20
Stone, clay, and glass products	10.85	10.68	10.68	10.83	10.81	10.90	10.86	10.84	10.82	10.94	10.92	10.97	10.92
Glass and glassware, pressed or blown	11.69	11.66	11.64	11.63	11.70	11.66	11.61	11.75	11.72	11.85	11.84	11.61	11.59
Primary metal industries	13.89	13.71	13.72	13.75	13.94	13.92	13.96	13.74	13.85	14.00	14.00	14.03	13.99
Blast furnace and basic steel products	14.20	14.03	14.19	14.14	14.15	14.20	14.22	14.17	14.25	14.34	14.24	14.22	14.27
Iron and steel foundries	14.40	14.34	14.02	14.26	14.63	14.46	14.50	13.86	14.12	14.40	14.56	14.72	14.82
Nonferrous rolling and drawing	14.94	14.48	14.34	14.43	15.01	14.93	15.14	14.95	14.96	15.23	15.24	15.23	15.17
Fabricated metal products	11.99	11.77	11.89	11.93	12.09	12.02	12.14	11.82	11.84	11.99	12.05	12.13	12.14
Cutlery, hand tools, and hardware	12.04	11.83	11.72	11.69	12.13	12.06	12.21	11.82	11.88	12.08	12.06	12.40	12.51
Fabricated structural metal products	10.82	10.87	10.82	10.72	10.78	10.75	10.74	10.78	10.74	10.86	10.94	10.92	10.91
Metal forgings and stampings	14.38	14.02	14.28	14.34	14.48	14.34	14.59	14.11	14.17	14.37	14.45	14.61	14.68
Machinery, except electrical	12.02	11.74	11.82	11.92	12.06	12.05	12.10	11.90	11.82	12.06	12.18	12.25	12.27
Construction and related machinery	10.39	10.18	10.21	10.30	10.21	10.20	10.31	10.28	10.31	10.62	10.59	10.77	10.60
Metalworking machinery	11.40	11.39	11.39	11.30	11.34	11.25	11.27	11.29	11.28	11.42	11.54	11.62	11.64
Special industry machinery	11.46	11.41	11.30	11.30	11.48	11.45	11.47	11.55	11.34	11.66	11.50	11.46	11.57
General industrial machinery	12.59	12.16	12.35	12.33	12.69	12.77	12.76	12.36	12.41	12.59	12.60	12.84	13.08
Office and computing machines	10.58	10.04	10.08	10.22	10.44	10.21	10.59	10.80	10.97	10.95	10.84	10.88	11.08
Refrigeration and service machinery	13.99	13.42	13.53	14.03	14.26	14.46	14.53	13.78	13.47	13.86	14.31	14.16	13.92
Electric and electronic equipment	11.25	11.26	11.29	11.21	11.26	11.28	11.23	11.16	11.20	11.27	11.22	11.30	11.35
Electrical industrial apparatus	11.09	11.03	11.20	11.18	11.12	11.06	11.04	10.88	11.00	11.10	11.03	11.08	11.30
Household appliances	12.03	12.15	12.07	11.97	12.05	12.08	11.90	11.83	11.98	11.98	12.06	12.13	12.15
Electric lighting and wiring equipment	11.52	11.39	11.48	11.38	11.62	11.61	11.61	11.38	11.54	11.38	11.48	11.62	11.75
Communication equipment	11.76	11.70	11.78	11.75	11.84	11.94	11.85	11.72	11.63	11.72	11.61	11.67	11.85
Transportation equipment	15.14	14.79	14.79	15.00	15.06	15.00	15.21	14.91	15.05	15.36	15.38	15.52	15.59
Motor vehicles and equipment	15.65	15.24	15.20	15.48	15.63	15.51	15.75	15.36	15.56	15.93	15.96	16.08	16.11
Aircraft and parts	13.79	13.84	13.99	13.36	13.42	13.63	13.70	13.92	13.83	13.77	13.68	14.04	14.10
Instruments and related products	9.21	9.14	9.19	9.20	9.10	9.14	9.20	9.26	9.22	9.26	9.25	9.27	9.30
Measuring and controlling devices	9.28	9.21	9.30	9.35	9.18	9.22	9.25	9.33	9.30	9.24	9.27	9.33	9.35
Nondurable Goods[c]	11.03	10.98	10.92	10.97	11.04	11.00	11.01	11.04	11.01	11.05	11.06	11.09	11.18
Food and kindred products	10.62	10.61	10.61	10.70	10.68	10.59	10.55	10.65	10.76	10.48	10.46	10.68	10.70
Meat products	9.02	9.28	9.14	9.28	8.94	9.17	9.03	9.05	9.07	8.87	8.71	8.77	8.94
Dairy products	10.78	10.97	11.02	10.98	10.78	10.74	10.70	10.67	10.71	10.63	10.61	10.85	10.70
Preserved fruits and vegetables	11.04	10.74	11.09	11.06	11.31	11.05	11.15	11.11	11.38	10.37	10.83	11.29	11.42
Bakery products	11.78	11.77	11.70	11.74	11.81	11.72	11.73	11.74	11.79	11.82	11.77	11.91	11.89
Beverages	10.53	10.47	10.38	10.42	10.48	10.41	10.52	10.86	10.72	10.59	10.65	10.39	10.43
Apparel and other textile products	7.53	7.66	7.48	7.51	7.47	7.54	7.57	7.45	7.45	7.51	7.53	7.58	7.62

See footnotes at end of table.

AVERAGE HOURLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS IN OHIO, 1988[a] (continued)

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
Paper and allied products	$11.23	$11.21	$11.08	$11.10	$11.23	$11.08	$11.23	$11.25	$11.20	$11.41	$11.35	$11.27	$11.37
Misc. converted paper products	10.04	10.19	9.91	9.93	10.18	9.85	10.00	10.34	10.00	10.05	10.04	9.93	10.06
Paperboard containers and boxes	10.17	10.14	10.03	10.06	10.08	10.13	10.23	10.11	10.27	10.32	10.26	10.19	10.28
Printing and publishing	11.30	11.19	11.21	11.29	11.22	11.36	11.25	11.26	11.31	11.43	11.35	11.33	11.42
Newspapers	10.85	10.55	10.66	10.62	10.73	10.84	10.79	10.85	10.86	11.07	11.03	11.03	11.20
Commercial printing	10.93	10.97	10.97	11.09	10.80	10.93	10.75	10.83	10.99	11.03	10.91	10.91	11.00
Chemicals and allied products	13.01	12.92	12.83	12.89	12.97	12.93	12.95	13.02	12.98	13.01	13.07	13.22	13.32
Industrial inorganic chemicals	13.51	13.60	13.52	13.52	13.49	13.47	13.44	13.39	13.50	13.50	13.40	13.64	13.71
Rubber and misc. plastics products	10.40	10.36	10.29	10.29	10.44	10.46	10.43	10.35	10.28	10.46	10.44	10.49	10.52
Tires and inner tubes	14.71	14.54	14.53	14.62	14.77	14.87	14.77	14.71	14.79	14.79	14.64	14.68	14.83
Miscellaneous plastics products	10.06	9.99	9.91	9.93	10.12	10.10	10.09	9.98	9.87	10.13	10.10	10.16	10.27
MINING	12.62	12.56	12.64	12.63	12.63	12.41	12.40	12.47	12.67	12.72	12.71	12.81	12.82
Bituminous coal and lignite mining	15.60	15.35	15.27	15.48	15.49	15.31	15.38	15.57	15.83	15.79	15.81	15.89	16.04
CONSTRUCTION	15.01	15.02	15.04	14.85	14.64	14.82	14.93	15.01	15.03	15.15	15.17	15.14	15.16
TRANSPORTATION AND PUBLIC UTILITIES	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Communication, electric, gas services	13.90	13.75	13.67	13.84	13.75	13.79	13.81	13.91	14.08	14.09	14.03	14.11	13.97
Communication	13.59	13.46	13.46	13.50	13.45	13.41	13.47	13.52	13.85	13.84	13.69	13.81	13.58
Electric, gas, and sanitary services	14.26	14.08	13.91	14.23	14.10	14.23	14.19	14.35	14.34	14.38	14.43	14.46	14.41
WHOLESALE TRADE	10.01	9.78	9.88	9.88	9.90	9.90	10.00	10.02	10.05	10.14	10.18	10.16	10.18
Wholesale trade-durable goods	9.83	9.60	9.69	9.69	9.76	9.73	9.87	9.83	9.86	9.96	9.97	9.97	9.96
Wholesale trade-nondurable goods	10.31	10.08	10.19	10.20	10.15	10.19	10.22	10.34	10.37	10.43	10.52	10.47	10.55
RETAIL TRADE[d]	5.83	5.80	5.78	5.83	5.82	5.79	5.77	5.80	5.77	5.84	5.85	5.90	5.94
General merchandise stores	6.28	6.28	6.22	6.26	6.28	6.25	6.25	6.32	6.23	6.37	6.35	6.29	6.25
Department stores	6.41	6.42	6.35	6.40	6.41	6.39	6.38	6.45	6.38	6.49	6.49	6.42	6.38
SERVICES	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Health services	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hospitals	10.25	10.21	10.21	10.20	10.21	10.18	10.19	10.23	10.21	10.28	10.27	10.36	10.41

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average earnings are computed from gross payroll before tax and other deductions. Includes pay for overtime, incentive bonuses paid regularly, holidays, vacations, and sick leave. Excludes special bonuses, retroactive pay, and payments in kind. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; petroleum and coal products; leather and leather products. [d] Money payments only, tips not included. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus 43216 4-1-89 RS-790-4-0 (1988)

1.

AVERAGE WEEKLY HOURS OF PRODUCTION OR NONSUPERVISORY WORKERS IN OHIO, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	43.0	42.8	42.4	42.7	43.0	43.0	43.3	42.3	42.4	43.3	43.3	43.7	43.8
Durable Goods[b]	43.4	43.1	42.8	43.1	43.3	43.5	43.9	42.6	42.7	43.7	43.7	44.2	44.2
Lumber and wood products	41.2	39.1	38.9	40.6	41.3	41.3	41.7	41.6	41.5	41.9	42.1	42.5	40.7
Furniture and fixtures	41.0	40.8	40.1	40.6	40.2	40.7	40.5	41.1	41.8	41.8	40.8	41.7	41.8
Stone, clay, and glass products	42.7	42.0	42.5	42.9	42.5	43.0	43.2	42.3	42.3	43.0	42.9	43.2	42.4
Glass and glassware, pressed or blown	42.1	40.4	41.1	42.2	42.3	42.1	42.3	42.2	43.0	44.2	43.0	42.4	40.5
Primary metal industries	45.1	44.8	44.5	44.5	45.3	45.5	46.0	44.2	44.7	45.2	44.9	45.6	45.5
Blast furnace and basic steel products	45.6	45.7	46.0	45.7	45.8	46.2	46.9	45.8	45.6	45.2	44.7	44.8	45.1
Iron and steel foundries	45.5	45.6	43.9	44.5	45.9	45.8	46.1	42.6	44.5	45.7	46.0	47.3	47.6
Nonferrous rolling and drawing	42.6	42.0	41.2	40.9	43.5	43.2	43.2	41.2	41.6	43.4	43.4	44.1	43.1
Fabricated metal products	43.1	43.0	42.8	42.7	43.3	43.1	43.8	42.2	42.3	43.2	43.4	43.8	43.8
Cutlery, hand tools, and hardware	41.0	40.2	40.7	40.6	41.1	41.0	41.7	40.0	40.7	41.7	40.7	41.7	41.6
Fabricated structural metal products	42.1	43.3	41.4	40.8	42.0	41.6	42.5	42.5	42.5	42.0	42.4	42.2	42.4
Metal forgings and stampings	44.6	43.2	44.2	44.5	45.6	45.2	46.0	43.1	43.5	44.4	44.6	45.3	44.9
Machinery, except electrical	43.8	43.2	43.3	43.5	43.8	43.7	43.9	43.5	43.0	44.0	44.1	44.5	44.8
Construction and related machinery	41.1	41.7	41.0	40.9	40.8	40.1	41.2	41.8	41.8	40.9	40.7	42.0	40.8
Metalworking machinery	44.5	43.7	44.0	44.0	44.1	44.0	44.3	44.8	44.1	45.0	45.0	45.2	45.9
Special industry machinery	44.7	43.6	43.9	43.5	44.0	44.8	45.1	45.3	43.1	46.0	45.3	45.8	45.5
General industrial machinery	43.4	42.9	43.3	43.0	44.2	43.8	43.5	42.4	42.1	43.5	43.0	43.7	45.7
Office and computing machines	41.6	42.5	41.4	41.4	40.4	40.9	40.9	42.6	42.3	41.9	41.8	41.2	42.5
Refrigeration and service machinery	43.5	42.4	41.8	43.4	43.8	45.1	45.6	42.9	42.2	43.7	44.9	44.4	42.2
Electric and electronic equipment	42.0	42.7	42.3	42.0	42.0	41.6	42.0	41.0	41.5	42.1	41.9	42.3	42.7
Electrical industrial apparatus	43.9	44.2	45.0	44.1	43.0	42.1	43.7	42.7	44.5	44.3	44.1	44.0	44.5
Household appliances	40.7	42.2	41.2	39.9	40.6	40.6	40.3	40.1	40.2	40.7	40.3	41.5	41.2
Electric lighting and wiring equipment	41.8	42.8	42.0	41.9	42.2	41.5	42.1	40.3	41.1	41.5	41.7	42.1	42.5
Communication equipment	40.8	41.1	41.0	41.6	41.8	42.2	40.7	41.2	39.8	40.8	39.6	39.4	41.0
Transportation equipment	44.6	43.9	43.3	44.2	44.0	45.2	45.4	42.9	43.4	45.5	45.5	46.2	46.3
Motor vehicles and equipment	45.1	43.8	42.9	44.5	45.0	45.9	46.1	42.9	43.9	46.3	46.1	46.9	47.1
Aircraft and parts	43.6	45.3	45.3	43.5	41.0	43.0	43.5	43.2	41.7	43.5	43.8	44.7	44.9
Instruments and related products	40.0	39.5	39.3	39.9	39.3	39.3	39.9	40.0	39.7	40.4	40.7	40.7	41.0
Measuring and controlling devices	38.8	38.4	38.2	39.3	38.3	38.2	38.0	38.5	38.3	39.2	39.4	39.6	40.5
Nondurable Goods[c]	42.2	42.3	41.6	42.0	42.2	41.9	42.2	41.8	41.8	42.5	42.3	42.6	42.9
Food and kindred products	42.0	42.5	41.3	41.6	41.5	41.2	41.6	42.0	42.4	42.6	42.1	42.4	42.7
Meat products	41.1	41.7	39.1	41.1	39.7	41.7	40.7	41.4	40.9	41.1	41.7	41.4	42.6
Dairy products	43.0	43.4	43.3	43.1	42.3	42.1	43.3	43.6	42.8	42.9	42.4	44.0	43.4
Preserved fruits and vegetables	42.0	41.4	40.8	39.9	42.1	40.2	41.7	41.4	43.2	44.5	42.6	42.4	42.8
Bakery products	39.8	40.4	40.1	39.6	39.2	39.6	40.1	39.8	39.6	39.3	39.8	40.6	39.7
Beverages	41.3	41.1	40.6	40.5	40.7	40.7	41.9	43.3	42.4	41.6	41.4	40.5	41.2
Apparel and other textile products	40.0	39.1	38.7	40.1	39.8	40.2	39.9	39.3	39.2	40.6	41.0	41.5	40.7

See footnotes at end of table.

AVERAGE WEEKLY HOURS OF PRODUCTION OR NONSUPERVISORY WORKERS IN OHIO, 1988[a] (continued)

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
Paper and allied products	44.3	44.6	43.8	43.8	44.8	43.9	44.4	44.1	43.3	45.1	43.9	44.3	45.5
Misc. converted paper products	43.5	43.6	42.3	42.9	43.2	43.3	42.7	44.9	43.3	44.5	42.9	43.8	44.4
Paperboard containers and boxes	43.2	43.6	43.2	42.5	43.6	43.4	43.4	42.4	41.7	43.8	42.9	43.5	44.0
Printing and publishing	39.4	38.8	38.7	39.6	39.3	39.2	39.2	39.1	39.4	39.6	39.5	39.7	40.6
Newspapers	34.4	34.0	33.1	34.4	34.5	34.6	34.8	34.2	34.1	34.6	34.6	35.2	35.2
Commercial printing	40.8	39.7	40.3	41.5	40.8	40.2	40.1	39.9	40.9	41.5	41.2[e]	41.3	42.5
Chemicals and allied products	42.5	42.7	41.9	42.4	42.3	41.8	42.7	42.6	42.3	42.7	42.4	42.9	42.9
Industrial inorganic chemicals	43.8	43.9	43.3	43.6	43.9	43.7	44.1	42.4	43.7	44.0	44.9	44.8	43.6
Rubber and misc. plastics products	43.1	43.3	42.9	42.8	43.4	43.3	43.3	42.0	42.3	43.4	43.5	43.8	43.7
Tires and inner tubes	46.3	47.3	47.0	46.3	46.4	47.1	46.3	45.9	46.1	46.3	45.6	45.4	45.8
Miscellaneous plastics products	42.8	42.7	42.5	42.4	43.1	42.9	43.0	41.4	41.9	43.1	43.4	43.6	43.8
MINING	43.1	44.4	42.8	42.6	42.7	42.6	43.4	43.0	43.5	43.2	43.2	43.1	42.7
Bituminous coal and lignite mining	42.0	44.9	43.2	42.8	42.1	41.3	41.4	40.5	42.5	40.9	41.6	41.3	41.9
CONSTRUCTION	39.1	37.0	37.0	37.7	38.3	38.7	39.5	40.0	39.7	39.9	40.7	39.9	38.9
TRANSPORTATION AND PUBLIC UTILITIES	....	....	....	....	....	....	....	....	....	....	....	....	....
Communication, electric, gas services	40.8	40.7	40.3	40.8	40.7	40.7	40.6	41.2	41.4	41.1	40.7	40.9	40.7
Communication	40.1	39.8	39.7	39.8	39.7	39.9	40.0	40.5	41.0	40.7	40.1	40.3	40.0
Electric, gas, and sanitary services	41.7	41.7	41.1	41.9	41.9	41.7	41.4	42.1	41.9	41.5	41.5	41.7	41.5
WHOLESALE TRADE	39.1	39.1	38.9	39.0	39.1	39.2	39.0	39.1	39.0	39.0	39.2	39.1	39.3
Wholesale trade-durable goods	39.1	39.3	39.2	39.1	39.2	39.2	39.1	39.2	39.1	38.9	39.0	39.1	39.3
Wholesale trade-nondurable goods	39.0	38.7	38.5	38.7	38.8	39.2	38.9	39.0	38.9	39.2	39.6	39.2	39.3
RETAIL TRADE	28.6	27.8	27.8	28.1	28.3	28.3	28.9	29.3	29.2	28.7	28.6	28.5	29.4
General merchandise stores	28.4	27.3	27.0	27.5	28.2	28.3	28.7	28.9	28.6	28.4	28.2	28.5	31.3
Department stores	28.6	27.4	27.0	27.6	28.3	28.4	28.8	29.0	28.8	28.6	28.4	28.6	31.6
SERVICES	....	....	....	....	....	....	....	....	....	....	....	....	....
Health services	....	....	....	....	....	....	....	....	....	....	....	....	....
Hospitals	33.2	33.1	33.0	33.1	33.1	33.1	33.2	33.6	33.3	33.4	33.2	33.0	32.8

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average weekly hours are computed from the sum of hours worked plus hours paid for stand-by or reporting time, sick leave, holidays, and vacations. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes miscellaneous manufacturing. [c] Includes tobaccco manufactures; textile mill products; petroleum and coal products; leather and leather products. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus 43216 4-1-89 RS-790-4-0 (1988)

1.

AVERAGE WEEKLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS IN OHIO, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	$516.00	$507.61	$502.86	$508.56	$516.86	$516.43	$521.77	$502.52	$504.98	$521.77	$523.06	$531.83	$534.36
Durable Goods[b]	538.59	527.11	525.16	530.56	538.22	540.27	547.87	521.85	525.21	545.38	546.69	557.80	557.80
Lumber and wood products	315.18	284.26	288.25	304.91	312.64	313.88	317.75	319.90	319.14	322.21	327.96	338.30	319.09
Furniture and fixtures	368.18	359.04	356.49	361.34	354.56	363.04	359.24	367.43	382.47	382.05	366.79	381.14	384.56
Stone, clay, and glass products.........	463.30	448.56	453.90	464.61	459.43	468.70	469.15	458.53	457.69	470.42	468.47	473.90	463.01
Glass and glassware, pressed or blown.	492.15	471.06	478.40	490.79	494.91	490.89	491.10	495.85	503.96	523.77	509.12	492.26	469.40
Primary metal industries	626.44	614.21	610.54	611.88	631.48	633.36	642.16	607.31	619.10	632.80	628.60	639.77	636.55
Blast furnace and basic steel products	647.52	641.17	652.74	646.20	648.07	656.04	666.92	648.99	649.80	648.17	636.53	637.06	643.58
Iron and steel foundries	655.20	653.90	615.48	634.57	671.52	662.27	668.45	590.44	628.34	658.08	669.76	696.26	705.43
Nonferrous rolling and drawing	636.44	608.16	590.81	590.19	652.94	644.98	654.05	615.94	622.34	660.98	661.42	671.64	653.83
Fabricated metal products	516.77	506.11	508.89	509.41	523.50	518.06	531.73	498.80	500.83	517.97	522.97	531.29	531.73
Cutlery, hand tools, and hardware	493.64	475.57	477.00	474.61	498.54	494.46	509.16	472.80	483.52	503.74	490.84	517.08	520.42
Fabricated structural metal products..	455.52	470.67	447.95	437.38	452.76	447.20	456.45	458.15	456.45	456.12	463.86	460.82	462.58
Metal forgings and stampings	641.35	605.66	631.18	638.13	660.29	648.17	671.14	608.14	616.40	638.03	644.47	661.83	659.13
Machinery, except electrical	526.48	507.17	511.81	518.52	528.23	526.59	531.19	517.65	508.26	530.64	537.14	545.13	549.70
Construction and related machinery ...	427.03	424.51	418.61	421.27	416.57	409.02	424.77	429.70	430.96	434.36	431.01	452.34	432.48
Metalworking machinery	507.30	497.74	501.16	497.20	500.09	495.00	499.26	505.79	497.45	513.90	519.30	525.22	534.28
Special industry machinery	512.26	497.48	496.07	491.55	505.12	512.96	517.30	523.22	488.75	536.36	520.95	524.87	526.44
General industrial machinery	546.41	521.66	534.76	530.19	560.90	559.33	555.06	524.06	522.46	547.67	541.80	561.11	597.76
Office and computing machines	440.13	426.70	417.31	423.11	421.78	417.59	433.13	460.08	464.03	458.81	453.11	448.26	470.90
Refrigeration and service machinery...	608.57	569.01	565.55	608.90	624.59	652.15	662.57	591.16	568.43	605.68	642.52	628.70	587.42
Electric and electronic equipment	472.50	480.80	477.57	470.82	472.92	469.25	471.66	457.56	464.80	474.47	470.12	477.99	484.65
Electrical industrial apparatus	486.85	487.53	504.00	493.04	478.16	465.63	482.45	464.58	489.50	491.73	486.42	487.52	502.85
Household appliances	489.62	512.73	497.28	477.60	489.23	490.45	479.57	474.38	481.60	487.59	486.02	503.40	500.58
Electric lighting and wiring equipment	481.54	487.49	482.16	476.82	490.36	481.82	488.78	458.61	474.29	472.27	478.72	489.20	499.38
Communication equipment	479.81	480.87	482.98	488.80	494.91	503.87	482.30	482.86	462.87	478.18	459.76	459.80	485.85
Transportation equipment	675.24	649.28	640.41	663.00	662.64	678.00	690.53	639.64	653.17	698.88	699.79	717.02	721.82
Motor vehicles and equipment	706.27	667.51	652.08	688.86	703.35	711.91	726.08	658.94	683.08	737.56	735.76	754.15	758.78
Aircraft and parts	601.24	626.95	633.75	581.16	550.22	586.09	595.95	601.34	576.71	599.00	599.18	627.59	633.09
Instruments and related products	368.40	361.03	361.17	367.08	357.63	359.20	367.08	370.40	366.03	374.10	376.48	377.29	381.30
Measuring and controlling devices	360.06	353.66	355.26	367.46	351.59	352.20	351.50	359.21	356.19	362.21	365.24	369.47	378.68
Nondurable Goods[c]	465.47	464.45	454.27	460.74	465.89	460.90	464.62	461.47	460.22	469.63	467.84	472.43	479.62
Food and kindred products	446.04	450.93	438.19	445.12	443.22	436.31	438.88	447.30	456.22	446.45	440.37	452.83	456.89
Meat products	370.72	386.98	357.37	381.41	354.92	382.39	367.52	374.67	370.96	364.56	363.21	363.08	380.84
Dairy products	463.54	476.10	477.17	473.24	455.99	452.15	463.31	465.21	458.39	456.03	449.86	477.40	464.38
Preserved fruits and vegetables	463.68	444.64	452.47	441.29	476.15	444.21	464.96	459.95	491.62	461.47	461.36	478.70	488.78
Bakery products	468.84	475.51	469.17	464.90	462.95	464.11	470.37	467.25	466.88	464.53	468.45	483.55	472.03
Beverages	434.89	430.32	421.43	422.01	426.54	423.69	440.79	470.24	454.53	440.54	440.91	420.80	429.72
Apparel and other textile products	301.20	299.51	289.48	301.15	297.31	303.11	302.04	292.79	292.04	304.91	308.73	314.57	310.13

See footnotes at end of table.

AVERAGE WEEKLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS IN OHIO, 1988[a] (continued)

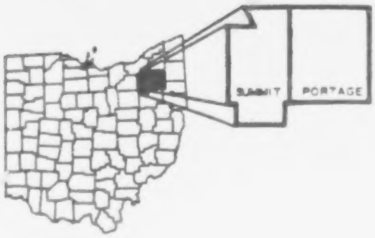
Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
Paper and allied products	$497.49	$499.97	$485.30	$486.18	$503.10	$486.41	$498.61	$496.13	$484.96	$514.59	$498.27	$499.26	$517.34
Misc. converted paper products	436.74	444.28	419.19	426.00	439.78	426.51	427.00	464.27	433.00	447.23	430.72	434.93	446.66
Paperboard containers and boxes	439.34	442.10	433.30	427.55	439.49	439.64	443.98	428.66	428.26	452.02	440.15	443.27	452.32
Printing and publishing	445.22	434.17	433.83	447.08	440.95	445.31	441.00	440.27	445.61	452.63	448.33	449.80	463.65
Newspapers	373.24	358.70	352.85	365.33	370.19	375.06	375.49	371.07	370.33	383.02	381.64	388.26	394.24
Commercial printing	445.94	435.51	442.09	460.24	440.64	439.39	431.08	432.12	449.49	457.75	449.49	450.58	467.50
Chemicals and allied products	552.93	551.68	537.58	546.54	548.63	540.47	552.97	554.65	549.05	555.53	554.17	567.14	571.43
Industrial inorganic chemicals	591.74	597.04	585.42	589.47	592.21	588.64	592.70	567.74	589.95	594.00	601.66	611.07	597.76
Rubber and misc. plastics products	448.24	448.59	441.44	440.41	453.10	452.92	451.62	434.70	434.84	453.96	454.14	459.46	459.72
Tires and inner tubes	681.07	687.74	682.91	676.91	685.33	700.38	683.85	675.19	681.82	684.78	667.58	666.47	679.21
Miscellaneous plastics products	430.57	426.57	421.18	421.03	436.17	433.29	433.87	413.17	413.55	436.60	438.34	442.98	449.83
MINING	543.92	557.66	540.99	538.04	539.30	528.67	538.16	536.21	551.15	549.50	549.07	552.11	547.41
Bituminous coal and lignite mining	655.20	689.22	659.66	662.54	652.13	632.30	636.73	630.59	672.78	645.81	657.70	656.26	672.08
CONSTRUCTION	586.89	555.74	556.48	559.85	560.71	573.53	589.74	600.40	596.69	604.49	617.42	604.09	589.72
TRANSPORTATION AND PUBLIC UTILITIES	......	......	......	......	......	......	......	......	......	......	......	......	......
Communication, electric, gas services ..	567.12	559.63	550.90	564.67	559.63	561.25	560.69	573.09	582.91	579.10	571.02	577.10	568.58
Communication	544.96	535.71	534.36	537.30	533.97	535.06	538.80	547.56	567.85	563.29	548.97	556.54	543.20
Electric, gas, and sanitary services..	594.64	587.14	571.70	596.24	590.79	593.39	587.47	604.14	600.85	596.77	598.85	602.98	598.02
WHOLESALE TRADE	391.39	382.40	384.33	385.32	387.09	388.08	390.00	391.78	391.95	395.46	399.06	397.26	400.07
Wholesale trade-durable goods	384.35	377.28	379.85	378.88	382.59	381.42	385.92	385.34	385.53	387.44	388.83	389.83	391.43
Wholesale trade-nondurable goods	402.09	390.10	392.32	394.74	393.82	399.45	397.56	403.26	403.39	408.86	416.59	410.42	414.62
RETAIL TRADE[d]	166.74	161.24	160.68	163.82	164.71	163.86	166.75	169.94	168.48	167.61	167.31	168.15	174.64
General merchandise stores	178.35	171.44	167.94	172.15	177.10	176.88	179.38	182.65	178.18	180.91	179.07	179.27	195.63
Department stores	183.33	175.91	171.45	176.64	181.40	181.48	183.74	187.05	183.74	185.61	184.32	183.61	201.61
FINANCE, INSURANCE, AND REAL ESTATE	......	......	......	......	......	......	......	......	......	......	......	......	......
Banking	266.18	264.30	262.79	264.66	266.61	265.10	268.99	268.94	267.91	265.37	266.06	265.30	268.05
Credit agencies other than banks	268.50	258.86	262.23	258.10	264.15	266.94	268.47	274.43	276.60	272.19	272.34	272.27	275.14
Insurance carriers	372.34	361.50	364.27	368.03	372.02	371.47	371.02	371.48	372.50	376.59	378.13	377.53	383.22
SERVICES	......	......	......	......	......	......	......	......	......	......	......	......	......
Health services	......	......	......	......	......	......	......	......	......	......	......	......	......
Hospitals	340.30	337.95	336.93	337.62	337.95	336.96	338.31	343.73	339.99	343.35	340.96	341.88	341.45

[a]Estimated in cooperation with U.S. Bureau of Labor Statistics. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average earnings are computed from gross payroll before tax and other deductions. Includes pay for overtime, incentive bonuses paid regularly, holidays, vacations, and sick leave. Excludes special bonuses, retroactive pay, and payments in kind. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b]Includes miscellaneous manufacturing. [c]Includes tobacco manufacturers; textile mill products; petroleum and coal products; leather and leather products. [d]Money payments only, tips not included. [e]Low due to labor-management disputes during part of pay period. [f]Not comparable to previous estimates.

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus 43216 4-1-89 RS-790-4-0 (1988)

AKRON

PRIMARY METROPOLITAN STATISTICAL AREA



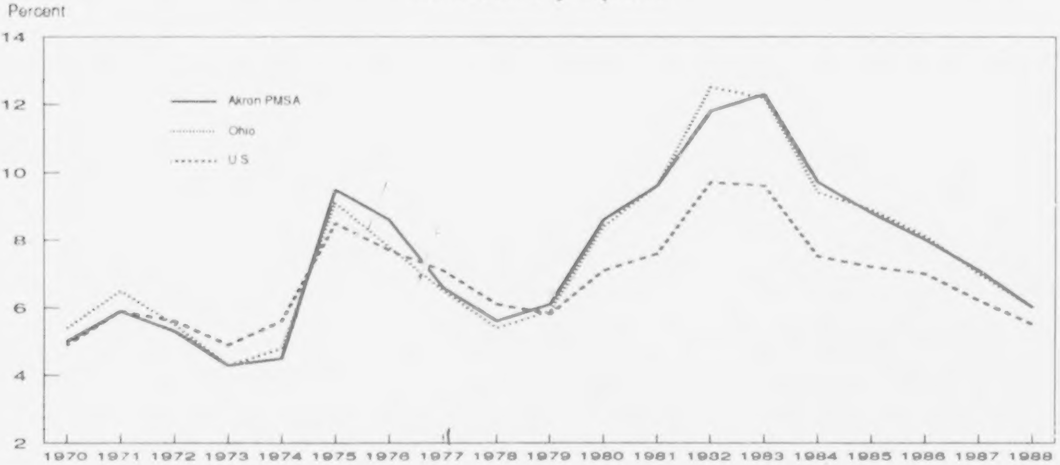
The estimated annual average civilian labor force in the Akron metropolitan area, distributed by place of residence, advanced 5,000 from 1987 to 325,300 in 1988. Total employment gained 8,100 over the year to 305,600, while unemployment recorded a decrease of 3,000. The unemployment rate dropped from 7.1 percent in 1987 to 6.0 percent in 1988. (See table, page 39, top.)

Total nonfarm payroll employment, at 271,900 in 1988, rose 2.6 percent from the 1987 level. Growth in nonmanufacturing industries created 7,500 jobs. Significant expansion occurred in services (+3,500) and retail trade (+1,800). The manufacturing workforce declined 700 over the year. A major reduction in rubber and miscellaneous plastics products, especially tires and inner tubes (-2,000), and less business in fabricated metal products were partially offset by gains in nonelectrical machinery and chemicals and allied products.

Nonagricultural wage and salary employment in the Akron area advanced 27,300 since the 1979-1983 recessionary period. Improvement in the nonmanufacturing sector contributed 97.8 percent of the gain. Primary growth industries were services and retail trade. Manufacturing employment recovered 2.7 percent of jobs lost during the economic downturn, due to scattered increases in durable-goods industries, especially nonelectrical machinery. Rubber and miscellaneous plastics products, particularly tires and inner tubes, and fabricated metal products continued their downward trend at an accelerated rate. (See table, page 39, bottom.)

Akron PMSA, Ohio and U.S. Unemployment Rates

Not Seasonally Adjusted



Akron PMSA Civilian Labor Force and Nonagricultural Wage and Salary Employment[a] (Employed and Unemployed in Thousands)

Civilian Labor Force	Employment	Unemployment	Unemployment Rate[b]				Nonagricultural Wage & Salary Employment	Manufacturing	Nonmfg.
			PMSA	Ohio	U.S.				
282.2	267.3	14.8	5.3	5.5	5.6	1972	248.1	91.3	156.8
287.1	274.9	12.2	4.3	4.3	4.9	1973	255.2	94.0	161.2
290.8	277.7	13.0	4.5	4.8	5.6	1974	259.0	94.2	164.8
292.0	264.3	27.7	9.5	9.1	8.5	1975	248.4	84.5	163.9
291.3	266.3	25.0	8.6	7.8	7.7	1976	247.3	80.3	167.0
294.2	274.7	19.5	6.6	6.5	7.1	1977	259.3	85.6	173.7
298.9	282.2	16.7	5.6	5.4	6.1	1978	266.6	85.9	180.7
303.8	285.4	18.4	6.1	5.9	5.8	1979	270.9	85.6	185.3
304.5	278.3	26.2	8.6	8.4	7.1	1980	262.4	79.1	183.3
304.1	274.9	29.1	9.6	9.6	7.6	1981	259.5	75.7	183.8
303.9	268.0	35.9	11.8	12.5	9.7	1982	248.8	68.3	180.5
302.5	265.2	37.3	12.3	12.2	9.6	1983	244.7	65.2	179.5
316.5	285.8	30.[illegible]	9.7	9.4	7.5	1984	252.2	67.9	184.4
317.8	289.9	28.0	8.8	8.9	7.2	1985	257.6	68.1	189.5
320.4	294.8	25.6	8.0	8.1	7.0	1986	260.7	67.2	193.5
320.3	297.5	22.7	7.1	7.0	6.2	1987	265.1	66.4	198.7
325.3	305.6	19.7	6.0	6.0	5.5	1988	271.9	65.8	206.2

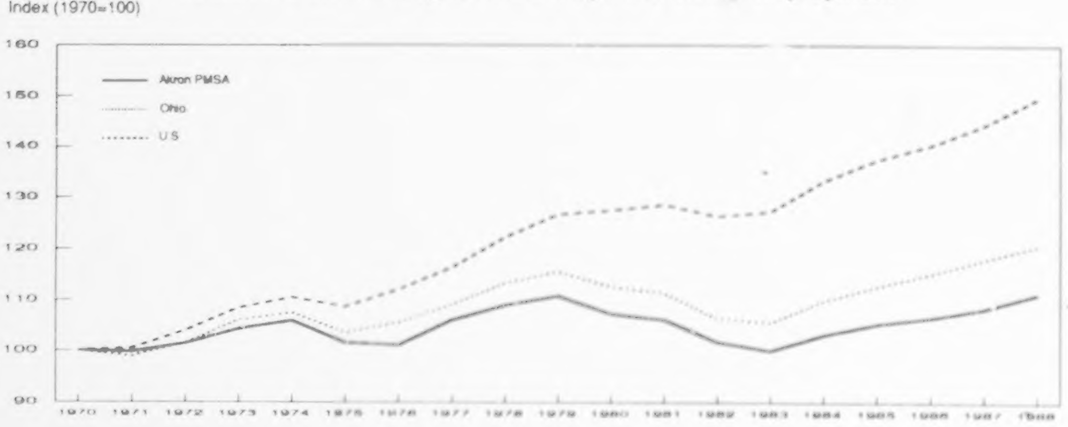
[a] Civilian labor force estimates are based on place of residence.
Nonagricultural wage and salary employment estimates are based on place of work.
[b] Unemployment as percent of civilian labor force.

Nonagricultural Wage and Salary Employment in Selected Industries in the Akron Primary Metropolitan Statistical Area Annual Average Data for 1979, 1983, and 1988

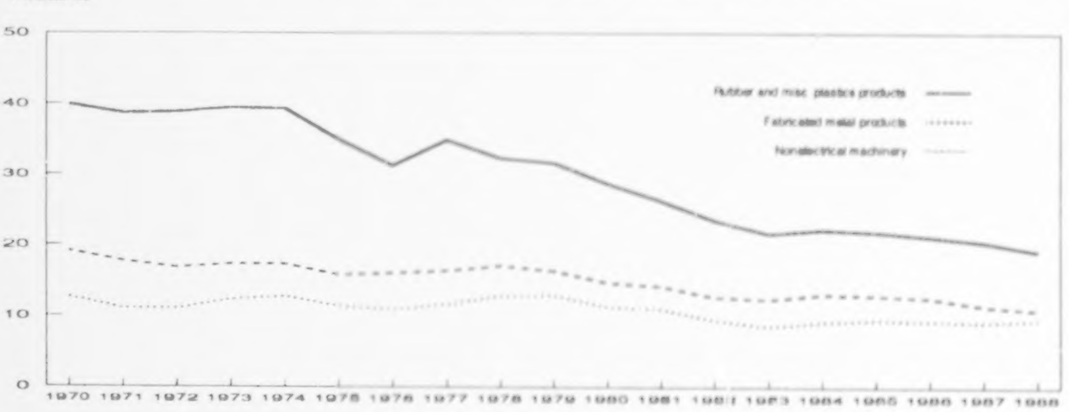
Industry	Employment (in thousands) 1979	1983	1988	Employment Changes 1979 - 1983	1983 - 1988	Percent Recovery PMSA	Ohio
TOTAL	270.9	244.7	271.9	-26.2	27.3	104.0	150.5
Manufacturing	85.6	65.2	65.8	-20.4	.6	2.7	11.7
Durable Goods	41.8	32.7	33.8	-9.1	1.1	11.9	7.8
Fabricated Metal Products	16.3	12.3	10.9	-4.0	-1.4	–	7.2
Machinery, Except Electrical	13.0	8.5	9.5	-4.4	1.0	21.6	6.3
Nondurable Goods	43.9	32.5	32.0	-11.4	- .5	–	29.0
Rubber and Misc. Plastics Products	31.6	21.6	19.2	-10.0	-2.4	–	33.8
Tires and Inner Tubes	24.7	15.5	10.4	-9.2	-5.1	–	–
Construction	9.2	6.9	9.7	-2.3	2.8	120.0	101.3
Transportation and Public Utilities	15.2	12.5	12.9	-2.6	.4	14.8	38.7
Wholesale Trade	11.9	11.9	14.4	.0	2.5	+	308.7
Retail Trade	46.2	45.3	53.4	- .9	8.1	876.5	527.1
Finance, Insurance, and Real Estate	9.4	9.1	10.7	- .3	1.5	563.9	+
Services	49.7	52.3	61.3	2.7	9.0	+	+
Government	43.2	40.7	43.1	-2.5	2.4	94.4	227.4
State Government	12.4	13.1	14.8	.7	1.8	+	+
Local Government	28.7	25.5	25.8	-3.1	.3	8.5	107.2

+ No Downturn, 1979 – 1983.
– No Upturn, 1983 – 1988.

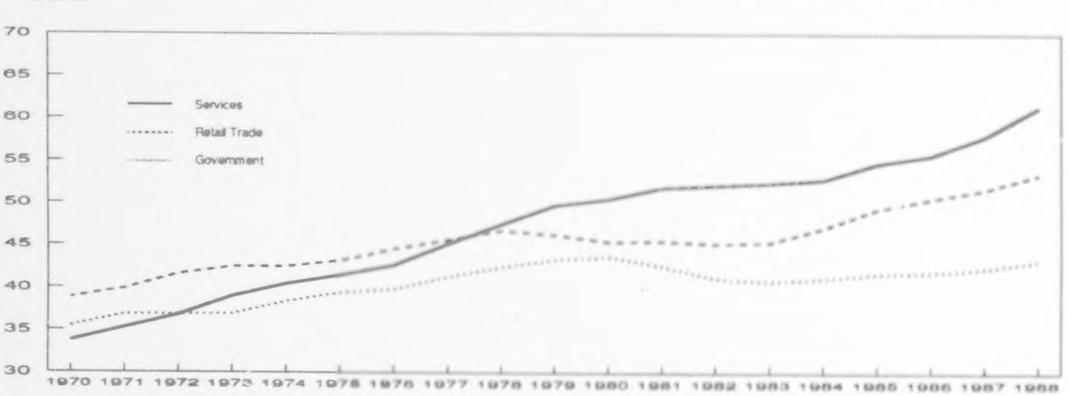
Indexes of Total Nonagricultural Wage and Salary Employment



Akron PMSA Nonagricultural Employment (Selected Manufacturing Industries)



Akron PMSA Nonagricultural Employment (Selected Nonmanufacturing Industries)



NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN AKRON PMSA, 1988[a]
(in thousands)

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
TOTAL	271.9	260.1	264.7	268.3	270.8	273.8	270.4	270.6	269.0	276.8	277.2	281.7	279.7
MANUFACTURING	65.8	65.0	65.0	65.7	65.9	65.8	66.4	66.0	64.8	65.4	65.4	67.0	66.6
Durable Goods[b]	33.8	33.3	33.5	34.1	34.1	34.0	34.3	34.1	32.6	33.1	33.2	34.7	34.7
Fabricated metal products	10.9	10.5	10.8	11.2	11.1	11.3	11.3	11.1	9.6	10.9	11.0	11.1	11.0
Machinery, except electrical	9.5	9.2	9.1	9.2	9.3	9.2	9.5	9.5	9.6	9.8	9.8	9.8	9.9
Metalworking machinery	3.3	3.3	3.2	3.2	3.2	3.3	3.4	3.3	3.4	3.4	3.4	3.4	3.5
Nondurable Goods[c]	32.0	31.6	31.5	31.7	31.8	31.9	32.1	32.0	32.3	32.2	32.2	32.3	31.9
Food and kindred products	2.9	2.9	2.8	2.8	2.9	2.9	3.0	3.0	3.0	2.9	2.9	2.9	2.9
Chemicals and allied products	3.6	3.7	3.7	3.7	3.8	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.5
Rubber and misc. plastics products	19.2	19.0	19.0	19.0	19.1	19.2	19.3	19.1	19.2	19.3	19.4	19.5	19.3
Tires and inner tubes	10.4	10.5	10.4	10.4	10.5	10.5	10.5	10.5	10.5	10.5	10.4	10.4	10.3
NONMANUFACTURING[d]	206.2	195.1	199.7	202.5	204.9	208.0	203.9	204.6	204.2	211.4	211.8	214.7	213.1
CONSTRUCTION	9.7	7.8	7.8	8.0	8.9	9.7	10.2	10.7	10.8	10.9	10.9	10.6	10.0
TRANSPORTATION AND PUBLIC UTILITIES	12.9	12.6	12.6	12.7	12.8	12.8	13.0	13.1	13.1	13.1	13.1	13.2	13.2
Communication, electric, gas services	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
WHOLESALE TRADE	14.4	14.1	14.1	14.0	14.1	14.3	14.5	14.5	14.5	14.6	14.8	14.9	14.9
RETAIL TRADE	53.4	51.7	51.3	51.8	52.4	52.8	53.3	53.5	53.7	54.0	54.7	55.4	56.1
General merchandise stores	6.6	6.7	6.3	6.2	6.1	6.2	6.3	6.5	6.4	6.5	6.7	7.4	7.7
FINANCE, INSURANCE, AND REAL ESTATE	10.7	10.5	10.5	10.6	10.6	10.7	10.7	10.9	10.8	10.7	10.7	10.7	10.6
Banking	3.1	3.1	3.2	3.1	3.1	3.1	3.1	3.2	3.1	3.1	3.1	3.0	3.1
SERVICES	61.3	57.6	58.1	59.4	60.6	62.1	63.1	63.2	63.2	63.3	61.9	61.7	61.9
Business services	13.0	11.7	11.9	12.8	12.9	13.0	13.1	13.3	13.4	13.5	13.5	13.4	13.6
Amusement and recreation services	3.2	2.3	2.4	2.5	2.9	3.7	4.1	4.2	4.1	4.0	2.8	2.7	2.8
Health services	20.1	19.7	19.7	19.8	19.8	19.9	20.1	20.1	20.3	20.3	20.3	20.3	20.4
GOVERNMENT	43.1	40.2	44.8	45.4	45.0	45.0	38.5	38.1	37.4	44.1	45.1	47.7	45.7
State government	14.8	12.1	16.3	16.7	16.6	16.4	10.9	11.0	10.6	16.2	17.0	17.1	17.2
State government education	11.9	9.2	13.4	13.7	13.6	13.4	7.8	7.9	7.5	13.2	14.1	14.2	14.3
State government, except education	3.0	3.0	3.0	3.0	3.0	3.0	3.1	3.1	3.1	3.0	2.9	2.9	2.9
Local government	25.8	25.7	26.0	26.2	26.0	26.2	25.2	24.7	24.3	25.5	25.6	28.2	26.0
Local government education	14.2	14.4	14.7	14.9	14.7	14.8	13.3	12.7	12.5	14.3	14.5	14.9	14.9
Local government, except education	11.6	11.3	11.3	11.4	11.3	11.4	11.9	12.0	11.8	11.3	11.2	13.2	11.1

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Akron area is defined as Portage and Summit Counties. Based on March 1988 benchmark. Includes full- and part-time wage and salaried workers employed during pay periods which include the 12th of the month. Excludes self-employed, domestics, and armed forces. Subtotals may not add to totals, because of rounding or exclusion of minor groups. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; primary metal industries; electric and electronic equipment; transportation equipment; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; printing and publishing; petroleum and coal products; leather and leather products. [d] Includes mining. [e] Depressed due to labor-management disputes.

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NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN AKRON PMSA, 1987[a]
(in thousands)

Industry	1987 Average	January	February	March	April	May	June	July	August	September	October	November	December
TOTAL	265.1	258.9	259.6	260.1	262.7	266.2	262.4	263.6	263.1	269.3	270.8	271.7	272.4
MANUFACTURING	66.4	66.7	66.3	66.0	66.2	66.2	66.5	66.3	66.1	66.3	66.7	66.9	66.9
Durable Goods[b]	34.0	34.2	34.1	34.0	34.2	34.2	34.1	33.6	33.5	33.7	34.2	34.4	34.4
Fabricated metal products	11.5	11.8	11.7	11.5	11.6	11.5	11.5	11.4	11.3	11.3	11.5	11.4	11.3
Machinery, except electrical	9.2	9.2	9.2	9.2	9.3	9.3	9.2	9.2	9.1	9.1	9.2	9.2	9.2
Metalworking machinery	3.2	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3
Nondurable Goods[c]	32.4	32.5	32.3	32.0	32.0	32.0	32.4	32.7	32.5	32.6	32.5	32.4	32.5
Food and kindred products	2.9	2.9	2.9	2.9	2.9	2.9	3.0	3.0	2.9	2.9	2.9	2.9	2.9
Chemicals and allied products	3.3	2.9	2.9	2.9	3.0	3.1	3.2	3.4	3.5	3.6	3.7	3.7	3.8
Rubber and misc. plastics products	20.5	21.4	21.1	20.8	20.7	20.4	20.5	20.5	20.3	20.3	20.0	19.9	19.8
Tires and inner tubes	12.5	13.7	13.4	13.2	12.9	12.7	12.6	12.5	12.2	12.0	11.6	11.4	11.2
NONMANUFACTURING[d]	198.7	192.3	193.3	194.0	196.5	200.0	195.9	197.4	197.1	203.0	204.1	204.8	205.5
CONSTRUCTION	9.1	7.5	7.3	7.5	8.2	9.0	9.4	10.1	10.1	10.1	10.2	10.3	9.6
TRANSPORTATION AND PUBLIC UTILITIES	12.8	12.8	12.8	12.8	12.8	12.7	12.8	12.9	12.8	12.8	12.9	12.9	12.8
Communication, electric, gas services	5.2	5.4	5.3	5.3	5.2	5.2	5.2	5.2	5.1	5.1	5.0	5.0	4.9
WHOLESALE TRADE	14.0	13.6	13.6	13.6	13.8	13.9	14.0	13.9	14.0	14.0	14.4	14.3	14.3
RETAIL TRADE	51.6	50.5	50.2	50.4	50.7	51.4	51.7	51.7	51.7	51.8	52.1	53.1	53.9
General merchandise stores	6.4	6.7	6.2	6.1	6.1	6.1	6.1	6.1	6.1	6.2	6.6	7.3	7.5
FINANCE, INSURANCE, AND REAL ESTATE	10.6	10.3	10.4	10.4	10.4	10.5	10.6	10.7	10.7	10.7	10.7	10.7	10.7
Banking	3.1	3.1	3.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
SERVICES	57.8	54.4	54.9	54.9	56.2	57.8	59.1	60.0	60.2	60.5	58.8	58.3	58.7
Business services	11.1	10.4	10.5	10.4	10.7	10.8	11.1	11.5	11.3	11.4	11.8	11.8	12.0
Amusement and recreation services	3.4	2.4	2.5	2.5	2.9	3.8	4.3	4.7	5.0	5.0	2.8	2.5	2.7
Health services	19.3	18.6	18.8	18.8	18.9	19.0	19.3	19.5	19.7	19.8	19.8	19.6	19.7
GOVERNMENT	42.2	42.6	43.5	43.9	43.9	44.2	37.9	37.5	36.9	42.5	44.4	44.7	44.9
State government	14.4	14.6	15.5	15.7	15.6	15.7	10.7	10.8	10.3	14.9	16.3	16.4	16.5
State government education	11.4	11.7	12.6	12.8	12.7	12.7	7.6	7.6	7.1	11.8	13.4	13.5	13.6
State government, except education	3.0	2.9	2.9	2.9	2.9	3.0	3.1	3.1	3.2	3.0	2.9	2.9	2.9
Local government	25.4	25.5	25.7	25.8	26.0	26.1	24.7	24.3	24.2	25.2	25.8	25.9	26.0
Local government education	13.9	14.2	14.5	14.5	14.5	14.6	12.7	12.0	12.2	13.5	14.3	14.5	14.8
Local government, except education	11.6	11.2	11.2	11.3	11.5	11.6	12.0	12.3	12.1	11.7	11.6	11.4	11.2

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Akron area is defined as Portage and Summit Counties. Based on March 1988 benchmark. Includes full- and part-time wage and salaried workers employed during pay periods which include the 12th of the month. Excludes self-employed, domestics, and armed forces. Subtotals may not add to totals, because of rounding or exclusion of minor groups. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision."

[b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; primary metal industries; electric and electronic equipment; transportation equipment; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; printing and publishing; petroleum and coal products; leather and leather products. [d] Includes mining. [e] Depressed due to labor-management disputes.

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AVERAGE HOURLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS IN AKRON PMSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	$11.49	$11.34	$11.35	$11.46	$11.73	$11.66	$11.76	$11.46	$11.28	$11.34	$11.42	$11.58	$11.44
Durable Goods[b]	11.78	11.59	11.62	11.78	12.17	12.02	12.23	11.66	11.32	11.53	11.70	11.88	11.81
Fabricated metal products	14.48	13.83	13.89	14.41	15.24	14.72	15.18	13.90	13.90	14.28	14.83	14.60	14.65
Machinery, except electrical	10.26	10.18	10.21	10.11	10.39	10.39	10.38	10.33	10.15	10.30	10.28	10.19	10.20
Metalworking machinery	10.61	10.52	10.43	10.32	10.54	10.62	10.74	10.77	10.48	10.65	10.68	10.76	10.81
Nondurable Goods[c]	11.07	10.99	10.96	11.00	11.10	11.13	11.07	11.18	11.23	11.08	11.05	11.15	10.93
Food and kindred products	10.67	10.88	10.89	10.77	10.47	10.72	10.47	10.56	10.72	10.76	10.60	10.63	10.55
Chemicals and allied products	11.83	11.74	11.68	11.83	11.58	11.76	11.67	11.68	11.94	11.90	11.98	12.18	11.99
Rubber and misc. plastics products	11.26	11.16	11.19	11.24	11.35	11.35	11.35	11.39	11.42	11.25	11.17	11.23	11.01
Tires and inner tubes	16.01	15.67	15.81	15.83	16.06	16.13	16.18	16.13	16.19	16.02	15.95	15.95	16.14
TRANSPORTATION AND PUBLIC UTILITIES	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Communication, electric, gas services	13.97	13.88	13.84	13.86	13.80	13.76	13.82	14.02	14.10	14.16	14.15	14.18	14.07
WHOLESALE TRADE	9.27	9.03	8.96	9.16	9.25	9.06	9.23	9.34	9.53	9.36	9.43	9.55	9.34
RETAIL TRADE[d]	6.25	6.28	6.25	6.32	6.25	6.24	6.23	6.18	6.20	6.24	6.29	6.23	6.34

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Akron area is defined as Portage and Summit Counties. Data relate to full- and part-time production workers i manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average earnings are computed from gross payrol before tax and other deductions. Includes pay for overtime, incentive bonuses paid regularly, holidays, vacations, and sick leave. Excludes special bonuses, retroactive pay and payments in kind. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products furniture and fixtures; stone, clay, and glass products; primary metal industries; electric and electronic equipment; transportation equipment; instruments and related products miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; printing and publishing petroleum and coal products; leather and leather products. [d] Money payments only, tips not included. [e] Low due to labor-management disputes during part of pay period. [f] Nc comparable to previous estimates.

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AVERAGE WEEKLY HOURS OF PRODUCTION OR NONSUPERVISORY WORKERS IN AKRON PMSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	43.2	43.2	43.0	43.2	43.7	43.3	44.1	43.1	42.6	43.2	42.8	42.9	43.1
Durable Goods[b]	43.2	43.0	43.0	43.3	43.9	43.5	44.7	42.6	41.6	43.3	42.9	42.9	43.3
Fabricated metal products	44.2	43.8	43.5	45.0	46.8	45.4	48.2	42.4	41.8	44.1	43.1	43.1	42.7
Machinery, except electrical	44.8	44.5	44.5	43.7	44.1	44.3	44.6	45.6	43.7	45.4	45.5	45.5	46.0
Metalworking machinery	45.5	45.3	45.0	44.5	45.2	45.5	46.4	46.5	43.5	46.3	45.3	45.9	46.5
Nondurable Goods[c]	43.2	43.7	42.9	42.9	43.4	43.0	43.3	43.8	43.9	43.0	42.7	43.0	42.9
Food and kindred products	42.6	43.9	43.5	42.9	42.4	41.9	42.8	43.5	42.5	43.2	42.2	42.1	41.0
Chemicals and allied products	43.2	44.2	43.7	44.4	42.9	42.5	41.9	43.5	43.8	43.9	42.0	42.9	42.6
Rubber and misc. plastics products	44.4	44.7	44.2	44.0	44.6	44.5	45.0	44.8	45.1	44.1	44.0	43.9	44.4
Tires and inner tubes	49.8	50.0	49.6	49.5	49.2	50.3	50.8	51.1	51.1	49.2	48.0	47.9	50.6
TRANSPORTATION AND PUBLIC UTILITIES	....	....	....	....	....	....	....	....	....	....	....	....	....
Communication, electric, gas services	40.9	40.3	40.4	40.3	40.5	40.9	40.7	41.1	41.3	41.5	41.4	41.5	40.8
WHOLESALE TRADE	37.4	37.0	37.4	38.1	37.8	38.5	38.3	37.7	37.2	37.1	36.6	36.7	36.9
RETAIL TRADE	31.7	30.6	30.5	30.7	31.1	31.3	31.8	32.4	32.3	32.0	32.2	32.2	33.3

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Akron area is defined as Portage and Summit Counties. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average weekly hours are computed from the sum of hours worked plus hours paid for stand-by or reporting time, sick leave, holidays, and vacations. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; primary metal industries; electric and electronic equipment; transportation equipment; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; printing and publishing; petroleum and coal products; leather and leather products. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

Labor Market Information Division
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AVERAGE WEEKLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS IN AKRON PMSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	$496.37	$489.89	$488.05	$495.07	$512.60	$504.88	$518.62	$493.93	$480.53	$489.89	$488.78	$496.78	$493.06
Durable Goods[b]	508.90	498.37	499.66	510.07	534.26	522.87	546.68	496.72	470.91	499.25	501.93	509.65	511.37
Fabricated metal products	640.02	605.75	604.22	648.45	713.23	668.29	731.68	589.36	581.02	629.75	639.17	629.26	625.56
Machinery, except electrical	459.65	453.01	454.35	441.81	458.20	460.28	462.95	471.05	443.56	467.62	467.74	463.65	469.20
Metalworking machinery	482.76	476.56	469.35	459.24	476.41	483.21	498.34	500.81	455.88	493.10	483.80	493.88	502.67
Nondurable Goods[c]	478.22	480.26	470.18	471.90	481.74	478.59	479.33	489.68	493.00	476.44	471.84	479.45	468.90
Food and kindred products	454.54	477.63	473.72	462.03	443.93	449.17	448.12	459.36	455.60	464.83	447.32	447.52	432.55
Chemicals and allied products	511.06	518.91	510.42	525.25	496.78	499.80	488.97	508.08	522.97	522.41	503.16	522.52	510.77
Rubber and misc. plastics products	499.94	498.85	494.60	494.56	506.21	505.08	510.75	510.27	515.04	496.13	491.48	493.00	488.84
Tires and inner tubes	797.30	783.50	784.18	783.59	790.15	811.34	821.94	824.24	827.31	788.18	765.60	764.01	816.68
TRANSPORTATION AND PUBLIC UTILITIES	......	......	......	......	......	......	......	......	......	......	......	......	......
Communication, electric, gas services ..	571.37	559.36	559.14	558.56	558.90	562.78	562.47	576.22	582.33	587.64	585.81	588.47	574.06
WHOLESALE TRADE	346.70	334.11	335.10	349.00	349.65	348.81	353.51	352.12	354.52	347.26	345.14	350.49	344.65
RETAIL TRADE[d]	198.13	192.17	190.63	194.02	194.38	195.31	198.11	200.23	200.26	199.68	202.54	200.61	211.12

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Akron area is defined as Portage and Summit Counties. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average earnings are computed from gross payroll before tax and other deductions. Includes pay for overtime, incentive bonuses paid regularly, holidays, vacations, and sick leave. Excludes special bonuses, retroactive pay, and payments in kind. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; primary metal industries; electric and electronic equipment; transportation equipment; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; printing and publishing; petroleum and coal products; leather and leather products. [d] Money payments only, tips not included. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

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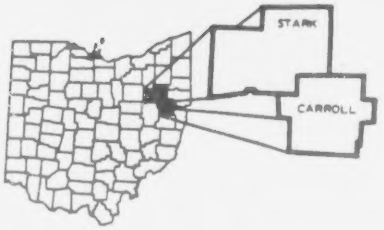
CANTON
METROPOLITAN STATISTICAL AREA



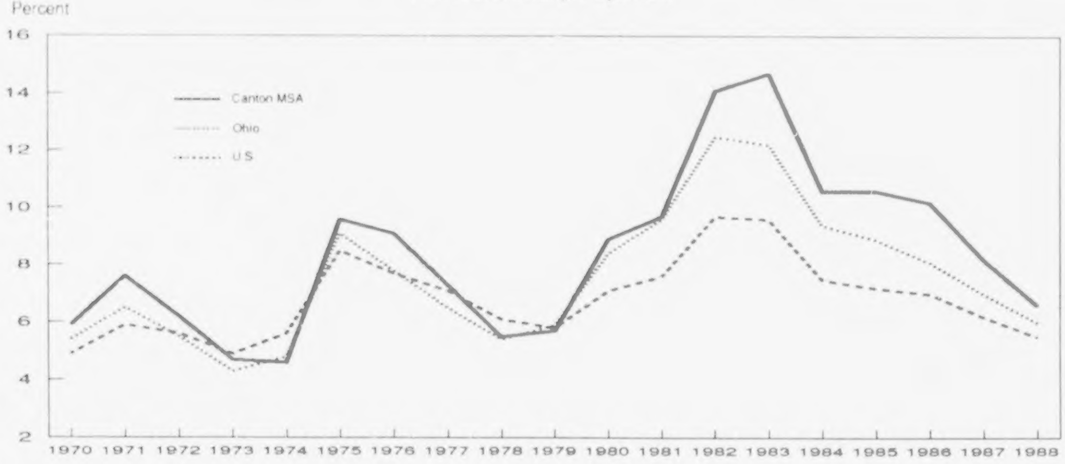
Note: Canton metropolitan area statistics are no longer funded and validated by the U.S. Bureau of Labor Statistics.

The estimated annual average civilian labor force in the Canton metropolitan area, based on place of residence, increased 100 from 1987 to 190,500 in 1988. Total employment advanced 3,300 over the year to 178,000, while unemployment declined 3,100. The unemployment rate dropped 1.6 points, from 8.2 percent in 1987 to 6.6 percent in 1988. (See table, page 47, top.)

Nonagricultural payroll employment rose 2.0 percent, from 156,400 in 1987 to 159,500 in 1988. Nonmanufacturing employment increased 2,100 from the 1987 level. A major portion of the growth occurred in services, retail trade, and local government. Scattered improvements in durable-goods industries, especially primary metal industries, raised manufacturing employment 900 over the year. Employment in food and kindred products declined.

Total nonfarm wage and salary employment in the Canton area recovered 92.6 percent of jobs lost during the 1979-1983 recessionary period, a gain of 16,100. Growth in services, retail trade, and construction contributed 83.9 percent of the improvement. The manufacturing workforce increased 1,300 since 1983, but remained 14,200 below the 1979 level. Gains were recorded in primary metal industries and rubber and miscellaneous plastics products. Food and kindred products continued its downward trend. Although fabricated metal products rose 100 since 1987, the industry remained 900 below the 1983 level. (See table, page 47, bottom.)

Canton MSA, Ohio and U.S. Unemployment Rates
Not Seasonally Adjusted



Canton MSA Civilian Labor Force and Nonagricultural Wage and Salary Employment[a]
(Employed and Unemployed in Thousands)

Civilian Labor Force							Nonagricultural Wage & Salary Employment		
	Employment							Manufacturing	
		Unemployment							Nonmfg.
			Unemployment Rate[b]						
			MSA	Ohio	U.S.				
165.6	155.3	10.3	6.2	5.5	5.6	1972	139.8	57.4	82.4
171.2	163.1	8.1	4.7	4.3	4.9	1973	147.9	61.7	86.2
175.6	167.5	8.1	4.6	4.8	5.6	1974	152.1	62.2	89.9
174.7	158.0	16.7	9.6	9.1	8.5	1975	145.0	55.3	89.7
174.4	158.6	15.8	9.1	7.8	7.7	1976	145.9	54.8	91.2
175.9	163.1	12.9	7.3	6.5	7.1	1977	149.8	56.0	93.8
179.9	170.0	9.9	5.5	5.4	6.1	1978	156.1	57.1	99.0
184.3	173.7	10.6	5.7	5.9	5.8	1979	160.8	59.1	101.7
187.7	170.9	16.8	8.9	8.4	7.1	1980	157.1	55.7	101.5
188.4	170.1	18.2	9.7	9.6	7.6	1981	156.6	54.8	101.9
191.4	164.3	27.0	14.1	12.5	9.7	1982	148.6	47.6	101.1
187.0	159.5	27.5	14.7	12.2	9.6	1983	143.4	43.5	99.9
188.1	168.1	19.9	10.6	9.4	7.5	1984	149.1	46.4	102.7
189.5	169.5	20.0	10.6	8.9	7.2	1985	151.5	46.2	105.3
190.5	171.2	19.4	10.2	8.1	7.0	1986	151.9	43.7	108.3
190.4	174.7	15.7	8.2	7.0	6.2	1987	156.4	44.0	112.5
190.5	178.0	12.6	6.6	6.0	5.5	1988	159.5	44.9	114.6

[a] Civilian labor force estimates are based on place of residence
Nonagricultural wage and salary employment estimates are based on place of work

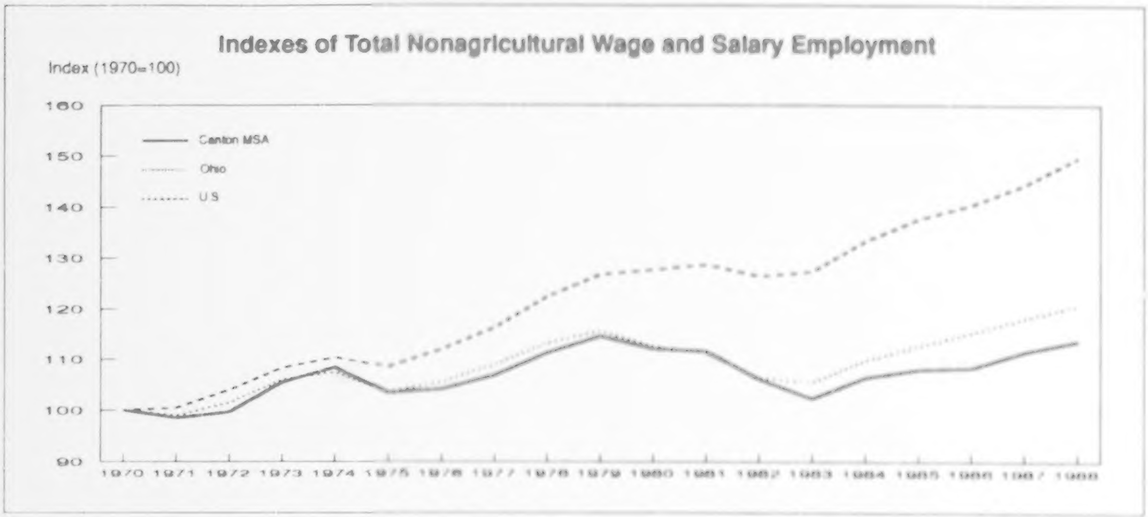
[b] Unemployment as percent of civilian labor force

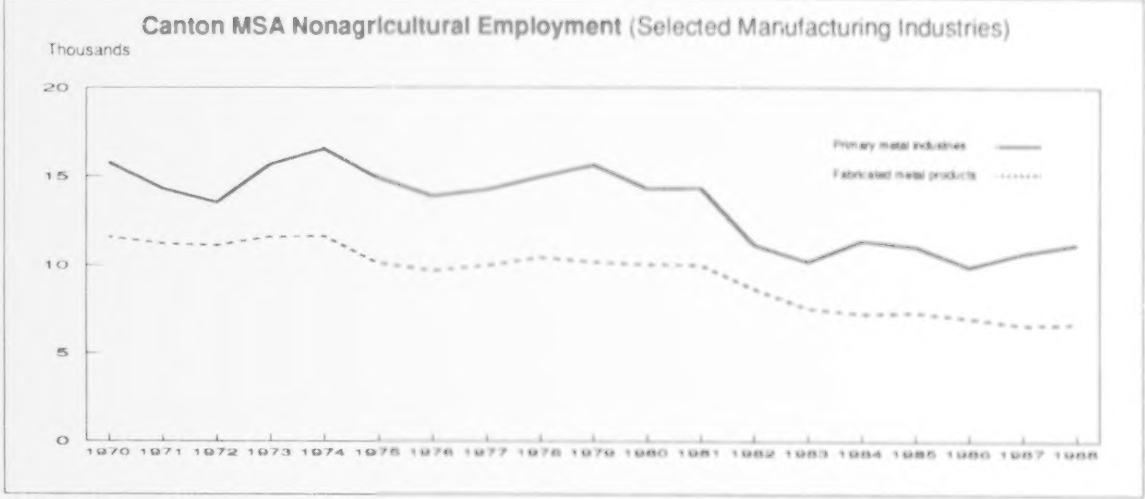
Nonagricultural Wage and Salary Employment in Selected Industries in the Canton Metropolitan Statistical Area
Annual Average Data for 1979, 1983, and 1988

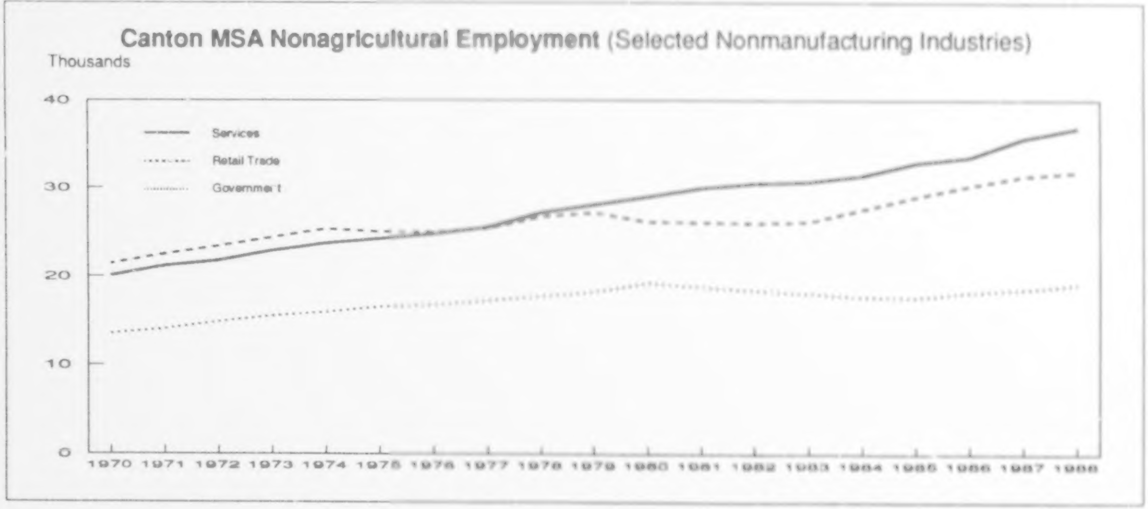
Industry	Employment (in thousands)			Employment Changes		Percent Recovery	
	1979	1983	1988	1979 - 1983	1983 - 1988	MSA	Ohio
TOTAL	160.8	143.4	159.5	-17.4	16.1	92.6	150.5
Manufacturing	59.1	43.5	44.9	-15.6	1.3	8.5	11.7
Durable Goods	46.4	33.0	33.2	-13.4	.2	1.5	7.8
Primary Metal Industries	15.6	10.2	11.1	-5.4	1.0	17.7	–
Fabricated Metal Products	10.2	7.6	6.7	-2.6	-.9	–	7.2
Nondurable Goods	12.7	10.6	11.7	-2.2	1.1	51.9	29.0
Food and Kindred Products	4.4	3.7	3.2	-.7	-.5	–	–
Rubber and Misc. Plastics Products	3.5	2.5	3.0	-1.0	.5	47.3	33.8
Construction	6.4	4.3	6.1	-2.1	1.8	85.9	101.3
Transportation and Public Utilities	7.6	5.9	5.8	-1.6	-.2	–	38.7
Wholesale Trade	7.2	7.2	8.0	.1	.7	+	308.7
Retail Trade	27.1	26.1	31.8	-1.0	5.6	555.5	527.1
Finance, Insurance, and Real Estate	5.9	6.4	6.4	.4	.0	+ –	+
Services	28.1	30.7	36.8	2.6	6.1	+	+
Government	18.3	18.0	19.0	-.2	.9	451.0	227.4
Local Government	15.1	15.2	15.8	.1	.6	+	107.2

+ No Downturn, 1979 – 1983.

– No Upturn, 1983 – 1988


Indexes of Total Nonagricultural Wage and Salary Employment


Canton MSA Nonagricultural Employment (Selected Manufacturing Industries)


Canton MSA Nonagricultural Employment (Selected Nonmanufacturing Industries)

NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN CANTON MSA, 1988[a]
(in thousands)

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
TOTAL	159.5	155.0	154.7	155.7	157.9	159.7	160.8	160.6	159.7	160.9	162.2	163.6	163.0
MANUFACTURING	44.9	44.3	44.3	44.4	44.4	44.6	45.1	45.2	44.7	45.1	45.3	45.4	45.7
Durable Goods[b]	33.2	32.8	32.9	33.1	33.0	33.0	33.2	33.4	32.9	33.3	33.4	33.5	33.8
Primary metal industries	11.1	11.0	10.9	11.0	11.0	11.1	11.2	11.3	11.0	11.3	11.3	11.3	11.4
Fabricated metal products	6.7	6.6	6.7	6.7	6.6	6.6	6.7	6.7	6.7	6.7	6.6	6.6	6.6
Metal forgings and stampings	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2
Nondurable Goods[c]	11.7	11.5	11.4	11.4	11.4	11.6	11.9	11.8	11.8	11.8	11.9	11.9	11.9
Food and kindred products	3.2	3.3	3.2	3.1	3.1	3.2	3.3	3.3	3.3	3.3	3.2	3.3	3.3
Rubber and misc. plastics products	3.0	2.9	2.9	2.9	3.0	3.0	3.0	2.9	2.9	3.0	3.1	3.1	3.0
NONMANUFACTURING[d]	114.6	110.7	110.4	111.2	113.5	115.1	115.7	115.4	115.1	115.8	116.9	118.2	117.4
CONSTRUCTION	6.1	4.8	4.7	4.9	5.5	6.1	6.5	6.9	6.9	6.8	6.9	6.6	6.4
TRANSPORTATION AND PUBLIC UTILITIES	5.8	5.5	5.5	5.5	5.6	5.7	5.8	5.9	5.9	5.9	5.9	6.0	6.0
Communication, electric, gas services	2.6	2.5	2.5	2.5	2.5	2.5	2.7	2.7	2.8	2.8	2.7	2.8	2.8
WHOLESALE TRADE	8.0	7.8	7.8	7.9	7.9	7.8	8.0	8.0	8.0	8.0	8.1	8.1	8.1
Wholesale trade-durable goods	4.4	4.3	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.5	4.5	4.5	4.5
RETAIL TRADE	31.8	31.0	30.5	30.6	31.3	31.6	31.8	31.8	32.1	32.2	32.1	32.7	33.4
General merchandise stores	4.0	4.1	3.8	3.7	3.7	3.8	3.9	3.9	3.9	4.0	4.1	4.4	4.6
Food stores	5.4	5.3	5.2	5.2	5.2	5.3	5.3	5.3	5.5	5.5	5.4	5.6	5.7
FINANCE, INSURANCE, AND REAL ESTATE	6.4	6.3	6.3	6.3	6.4	6.4	6.4	6.5	6.5	6.3	6.4	6.3	6.3
Banking	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.8
SERVICES	36.8	35.5	35.7	36.0	36.8	37.1	37.4	37.2	37.2	37.0	37.5	37.2	37.0
Health services	15.2	15.0	15.0	15.1	15.2	15.2	15.2	15.2	15.2	15.3	15.4	15.4	15.3
GOVERNMENT	19.0	18.9	19.1	19.1	19.1	19.5	18.9	18.0	17.7	18.7	19.2	20.4	19.3
State government	1.7	1.8	1.7	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Local government	15.8	15.7	15.9	16.0	15.9	16.3	15.7	14.8	14.5	15.6	16.1	17.3	16.1
Local government education	9.5	9.6	9.8	9.8	9.8	9.9	9.2	8.4	8.2	9.2	9.8	9.9	9.9
Local government, except education	6.4	6.1	6.1	6.1	6.2	6.4	6.5	6.4	6.3	6.4	6.3	7.4	6.2

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Canton area is defined as Carroll and Stark Counties. Based on March 1988 benchmark. Includes full- and part-time wage and salaried workers employed during pay periods which include the 12th of the month. Excludes self-employed, domestics, and armed forces. Subtotals may not add to totals, because of rounding or exclusion of minor groups. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; machinery, except electrical; electric and electronic equipment; transportation equipment; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; printing and publishing; chemicals and allied products; petroleum and coal products; leather and leather products. [d] Includes mining. [e] Depressed due to labor-management disputes.

Labor Market Information Division
Ohio Bureau of Employment Services
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NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN CANTON MSA, 1987[a]
(in thousands)

Industry	1987 Average	January	February	March	April	May	June	July	August	September	October	November	December
TOTAL	156.4	151.9	151.8	152.8	154.2	156.1	156.8	156.9	157.1	157.8	160.2	160.7	160.8
MANUFACTURING	44.0	43.1	43.3	43.3	43.3	43.5	43.8	43.9	44.1	44.2	44.9	45.0	45.1
Durable Goods[b]	32.3	31.5	31.8	31.9	31.9	31.9	32.1	32.1	32.3	32.4	33.0	33.1	33.1
Primary metal industries	10.7	10.3	10.5	10.5	10.5	10.5	10.6	10.6	10.7	10.6	11.0	11.1	11.2
Fabricated metal products	6.6	6.6	6.5	6.5	6.5	6.5	6.6	6.6	6.6	6.6	6.7	6.7	6.7
Metal forgings and stampings	2.2	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Nondurable Goods[c]	11.7	11.6	11.5	11.4	11.4	11.5	11.6	11.8	11.9	11.8	11.9	11.9	11.9
Food and kindred products	3.6	3.8	3.7	3.6	3.5	3.6	3.5	3.7	3.7	3.6	3.6	3.6	3.6
Rubber and misc. plastics products	2.9	2.8	2.8	2.8	2.9	2.9	2.9	2.8	2.9	2.9	3.0	3.0	3.0
NONMANUFACTURING[d]	112.5	108.8	108.4	109.5	110.9	112.7	113.0	113.1	113.0	113.6	115.3	115.7	115.8
CONSTRUCTION	6.0	4.9	4.5	4.9	5.3	5.9	6.4	6.7	6.6	6.5	6.9	6.7	6.5
TRANSPORTATION AND PUBLIC UTILITIES	5.7	5.5	5.5	5.6	5.7	5.7	5.7	5.8	5.8	5.7	5.7	5.7	5.7
Communication, electric, gas services	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.6	2.6	2.6	2.6	2.6
WHOLESALE TRADE	8.0	7.9	7.9	8.0	7.9	8.0	8.1	8.0	8.0	8.0	8.0	8.0	8.0
Wholesale trade-durable goods	4.4	4.4	4.4	4.4	4.4	4.4	4.5	4.4	4.4	4.4	4.4	4.4	4.4
RETAIL TRADE	31.3	30.5	30.1	30.3	30.5	30.9	31.2	31.5	31.6	31.6	32.0	32.4	32.8
General merchandise stores	3.9	4.1	3.8	3.7	3.7	3.8	3.8	3.8	3.8	3.8	4.0	4.4	4.5
Food stores	5.2	5.1	5.1	5.0	5.0	5.0	5.1	5.4	5.4	5.4	5.3	5.3	5.4
FINANCE, INSURANCE, AND REAL ESTATE	6.5	6.4	6.4	6.4	6.5	6.5	6.5	6.6	6.6	6.5	6.5	6.5	6.6
Banking	1.9	1.9	1.9	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
SERVICES	35.6	34.0	34.2	34.6	35.4	35.6	35.9	36.2	36.2	36.1	36.5	36.4	36.3
Health services	14.9	14.5	14.6	14.6	14.9	14.9	15.0	15.0	15.0	15.0	15.2	15.2	15.1
GOVERNMENT	18.5	18.5	18.7	18.8	18.6	19.1	18.2	17.4	17.4	18.2	18.8	19.0	19.1
State government	1.7	1.7	1.7	1.7	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Local government	15.3	15.3	15.6	15.7	15.4	15.9	15.0	14.2	14.2	15.1	15.6	15.8	15.9
Local government education	9.2	9.3	9.6	9.6	9.4	9.6	8.9	8.2	8.2	9.0	9.5	9.7	9.7
Local government, except education	6.1	6.0	6.0	6.1	6.1	6.3	6.1	6.0	6.0	6.1	6.1	6.1	6.1

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Canton area is defined as Carroll and Stark Counties. Based on March 1988 benchmark. Includes full- and part-time wage and salaried workers employed during pay periods which include the 12th of the month. Excludes self-employed, domestics, and armed forces. Subtotals may not add to totals, because of rounding or exclusion of minor groups. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision."
[b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; machinery, except electrical; electric and electronic equipment; transportation equipment; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; printing and publishing; chemicals and allied products; petroleum and coal products; leather and leather products. [d] Includes mining. [e] Depressed due to labor-management disputes.

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AVERAGE HOURLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS IN CANTON MSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	$11.41	$11.43	$11.44	$11.36	$11.42	$11.39	$11.35	$11.25	$11.27	$11.44	$11.51	$11.44	$11.61
Durable Goods[b]	11.83	11.76	11.80	11.73	11.82	11.79	11.77	11.65	11.66	11.89	11.95	11.95	12.12
Primary metal industries	12.94	12.96	12.90	12.95	13.07	12.94	12.96	12.92	12.79	12.91	12.95	12.84	13.07
Fabricated metal products	10.88	10.41	10.52	10.54	10.49	10.67	10.74	10.77	10.70	11.09	11.28	11.43	11.72
Metal forgings and stampings	14.10	14.31	14.46	14.55	14.44	14.42	14.16	13.93	13.78	13.89	13.65	13.68	13.95
Nondurable Goods[c]	10.02	10.24	10.16	10.12	10.10	10.11	9.99	9.95	10.03	9.96	10.05	9.78	9.83
Food and kindred products	10.61	10.80	10.60	11.04	10.82	10.91	10.70	10.48	10.70	10.52	10.43	10.28	10.03
Rubber and misc. plastics products	10.05	10.45	10.47	10.32	10.23	10.10	10.04	9.93	10.00	9.95	9.83	9.66	9.67
TRANSPORTATION AND PUBLIC UTILITIES	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Communication, electric, gas services ..	13.78	13.66	13.48	13.44	13.83	13.49	13.60	13.69	13.98	14.21	13.93	13.96	13.94
WHOLESALE TRADE	10.11	9.89	9.93	9.82	10.10	10.13	10.20	10.24	10.07	10.09	10.27	10.36	10.19
RETAIL TRADE[d]	5.53	5.42	5.53	5.55	5.56	5.47	5.48	5.56	5.50	5.54	5.53	5.57	5.60

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Canton area is defined as Carroll and Stark Counties. Data relate to full- and part-time production workers i manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average earnings are computed from gross payrol before tax and other deductions. Includes pay for overtime, incentive bonuses paid regularly, holidays, vacations, and sick leave. Excludes special bonuses, retroactive pay and payments in kind. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products furniture and fixtures; stone, clay, and glass products; machinery, except electrical; electric and electronic equipment; transportation equipment; instruments and relate products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; printing ar publishing; chemicals and allied products; petroleum and coal products; leather and leather products. [d] Money payments only, tips not included. [e] Low due to labor-managemer disputes during part of pay period. [f] Not comparable to previous estimates.

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AVERAGE WEEKLY HOURS OF PRODUCTION OR NONSUPERVISORY WORKERS IN CANTON MSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	42.9	43.2	43.1	43.0	43.2	43.2	42.8	42.3	42.1	42.6	42.9	42.9	43.0
Durable Goods[b]	43.6	44.3	43.8	43.4	43.7	43.7	43.5	42.9	42.6	43.4	43.8	43.8	44.1
Primary metal industries	46.1	47.2	46.4	46.9	47.2	47.2	46.6	45.9	45.1	45.2	45.5	45.2	45.5
Fabricated metal products	41.9	40.8	41.1	41.3	41.1	41.7	42.1	40.8	40.4	42.1	44.2	42.6	44.6
Metal forgings and stampings	40.9	40.3	41.5	41.2	40.3	40.2	40.2	40.6	40.5	40.9	41.2	41.3	42.8
Nondurable Goods[c]	40.7	40.0	40.7	41.9	41.4	41.9	40.7	40.5	40.6	40.2	40.3	40.2	39.7
Food and kindred products	38.8	39.8	38.5	40.0	38.5	40.7	38.3	38.1	38.5	37.9	38.2	38.4	39.4
Rubber and misc. plastics products	41.2	41.0	41.7	41.5	42.1	41.9	41.0	41.0	41.0	40.9	41.1	41.3	40.3
TRANSPORTATION AND PUBLIC UTILITIES	....	....	....	....	....	....	....	....	....	....	....	....	....
Communication, electric, gas services	40.8	41.4	40.1	40.2	42.3	40.3	40.2	40.8	41.2	41.4	40.9	40.7	40.4
WHOLESALE TRADE	37.6	38.0	37.8	38.2	37.8	37.6	37.5	37.5	37.0	36.7	37.6	37.3	38.0
RETAIL TRADE	28.9	28.2	28.0	28.3	28.4	28.9	29.3	29.7	29.2	28.9	28.8	29.0	29.4

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Canton area is defined as Carroll and Stark Counties. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average weekly hours are computed from the sum of hours worked plus hours paid for stand-by or reporting time, sick leave, holidays, and vacations. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; machinery, except electrical; electric and electronic equipment; transportation equipment; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; printing and publishing; chemicals and allied products; petroleum and coal products; leather and leather products. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

Labor Market Information Division
Ohio Bureau of Employment Services
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AVERAGE WEEKLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS IN CANTON MSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	$489.49	$493.78	$493.06	$488.48	$493.3[illegible]	$492.05	$485.78	$475.88	$474.47	$487.34	$493.78	$490.78	$499.23
Durable Goods[b]	515.79	520.97	516.84	509.08	516.53	515.22	512.00	499.79	496.72	516.03	523.41	523.41	534.49
Primary metal industries	596.53	611.71	598.56	607.36	616.90	610.77	603.94	593.03	576.83	583.53	589.23	580.37	594.69
Fabricated metal products	455.87	424.73	432.37	435.30	431.14	444.94	452.15	439.42	432.28	466.89	498.58	486.92	522.71
Metal forgings and stampings	576.69	576.69	600.09	599.46	581.93	579.68	569.23	565.56	558.09	568.10	562.38	564.98	597.06
Nondurable Goods[c]	407.81	409.60	413.51	424.03	418.14	423.61	406.59	402.98	407.22	400.39	405.02	393.16	390.25
Food and kindred products	411.67	429.84	408.10	441.60	416.57	444.04	409.81	399.29	411.95	398.71	398.43	394.75	395.18
Rubber and misc. plastics products	414.06	428.45	436.60	428.28	430.68	423.19	411.64	407.13	410.00	406.96	404.01	398.96	389.70
TRANSPORTATION AND PUBLIC UTILITIES	......	......	......	......	......	......	......	......	......	......	......	......	......
Communication, electric, gas services	562.22	565.52	540.55	540.29	585.01	543.65	546.72	558.55	575.98	588.29	569.74	568.17	563.18
WHOLESALE TRADE	380.14	375.82	375.35	375.12	381.78	380.89	382.50	384.00	372.59	370.30	386.15	386.43	387.22
RETAIL TRADE[d]	159.82	152.84	154.84	157.07	157.90	158.08	160.56	165.13	160.60	160.11	159.26	161.53	164.64

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Canton area is defined as Carroll and Stark Counties. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average earnings are computed from gross payroll before tax and other deductions. Includes pay for overtime, incentive bonuses paid regularly, holidays, vacations, and sick leave. Excludes special bonuses, retroactive pay, and payments in kind. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; machinery, except electrical; electric and electronic equipment; transportation equipment; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; printing and publishing; chemicals and allied products; petroleum and coal products; leather and leather products. [d] Money payments only, tips not included. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

Labor Market Information Division
Ohio Bureau of Employment Services
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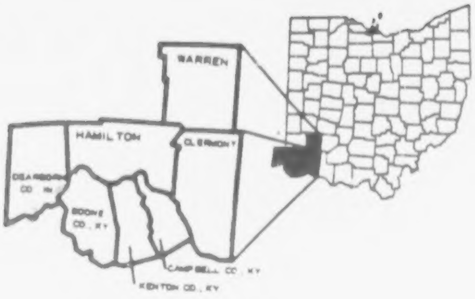
CINCINNATI
PRIMARY METROPOLITAN STATISTICAL AREA

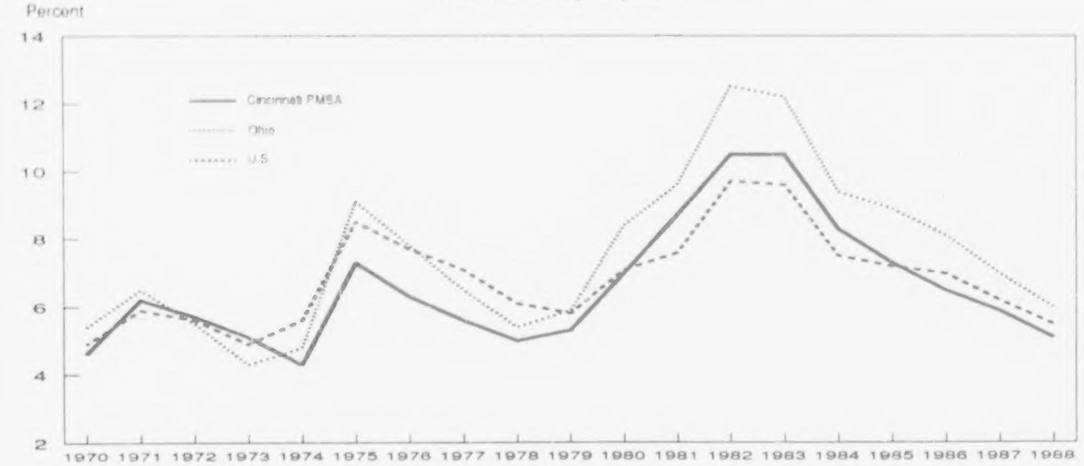


In the Cincinnati metropolitan area, the estimated annual average civilian labor force, distributed by place of residence, increased 18,500 from 1987 to 762,700 in 1988. Total employment gained 23,500 over the year, while unemployment registered a decrease of 5,000. The unemployment rate dropped from 5.9 percent in 1987 to 5.1 percent in 1988. (See table, page 55, top.)

Nonagricultural wage and salary employment totaled 700,200 in 1988, an increase of 3.3 percent, or 22,500 jobs from the 1987 level. Nonmanufacturing industries advanced 24,000 over the year. Retail trade and services accounted for two-thirds of this growth, although all sectors showed improvement. Manufacturing employment declined 1,500 during the period. A major reduction in transportation equipment (-3,100) was partially offset by modest expansion in electric and electronic equipment, rubber and miscellaneous plastics products, and fabricated metal products.

Total nonfarm payroll employment in the Cincinnati area increased 124,600 since the 1979-1983 recessionary period. Expansion in nonmanufacturing industries created 120,500 jobs, with notable gains in services and retail trade. Manufacturing recovered 12.6 percent of lost jobs, but remained 28,600 below the 1979 level. Gains were registered in printing and publishing, nonelectrical machinery, and chemicals and allied products. The continued decline in the number of jobs in transportation equipment lowered employment in this industry below the 1983 recessionary level. (See table, page 55, bottom.)

Cincinnati PMSA, Ohio and U.S. Unemployment Rates
Not Seasonally Adjusted



Cincinnati PMSA Civilian Labor Force and Nonagricultural Wage and Salary Employment[a] (Employed and Unemployed in Thousands)

Civilian Labor Force							Nonagricultural Wage & Salary Employment		
	Employment							Manufacturing	
		Unemployment							
			Unemployment Rate[b]						
			PMSA	Ohio	U.S.				Nonmfg.
561.0	529.0	32.0	5.7	5.5	5.6	1972	512.0	155.9	356.1
572.0	543.0	29.0	5.1	4.3	4.9	1973	534.6	165.5	369.1
595.3	569.8	25.5	4.3	4.6	5.6	1974	542.2	166.6	375.7
595.3	551.6	43.6	7.3	9.1	8.5	1975	531.2	153.9	377.3
604.8	566.6	38.2	6.3	7.8	7.7	1976	541.9	155.6	386.3
623.4	588.7	34.7	5.6	6.5	7.1	1977	562.1	161.1	401.0
648.3	615.8	32.5	5.0	5.4	6.1	1978	591.2	169.2	421.9
663.4	628.1	35.3	5.3	5.9	5.8	1979	607.4	173.1	434.3
676.2	628.8	47.5	7.0	8.4	7.1	1980	600.7	162.4	438.2
678.5	619.3	59.1	8.7	9.6	7.6	1981	592.2	157.3	434.9
684.3	612.4	71.9	10.5	12.5	9.7	1982	575.3	146.3	429.0
687.6	615.2	72.4	10.5	12.2	9.6	1983	575.6	140.4	435.2
695.9	638.4	57.5	8.3	9.4	7.5	1984	600.8	145.0	455.8
710.6	659.1	51.5	7.3	8.9	7.2	1985	628.1	147.1	481.0
727.8	680.7	47.2	6.5	8.1	7.0	1986	650.8	147.7	503.1
744.2	700.2	44.0	5.9	7.0	6.2	1987	677.7	146.0	531.7
762.7	723.7	39.0	5.1	6.0	5.5	1988	700.2	144.5	555.6

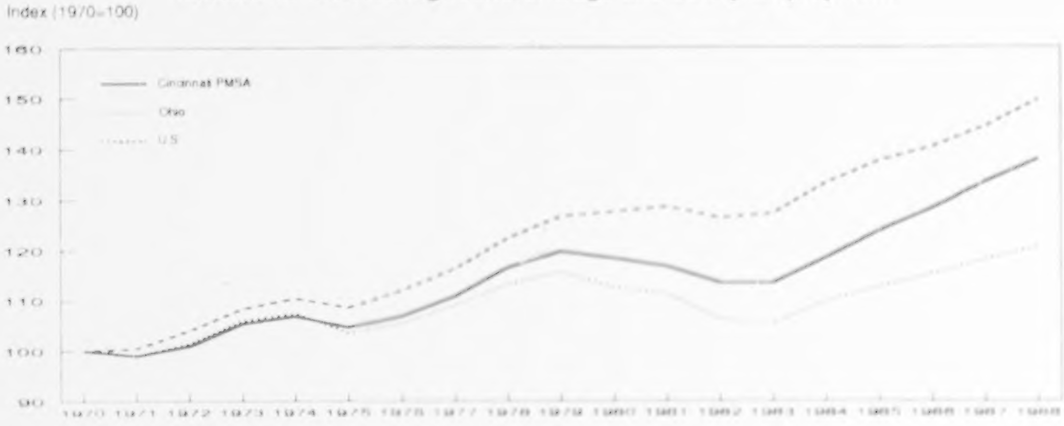
[a] Civilian labor force estimates are based on place of residence.
Nonagricultural wage and salary employment estimates are based on place of work.
[b] Unemployment as percent of civilian labor force.

Nonagricultural Wage and Salary Employment in Selected Industries in the Cincinnati Primary Metropolitan Statistical Area Annual Average Data for 1979, 1983, and 1988

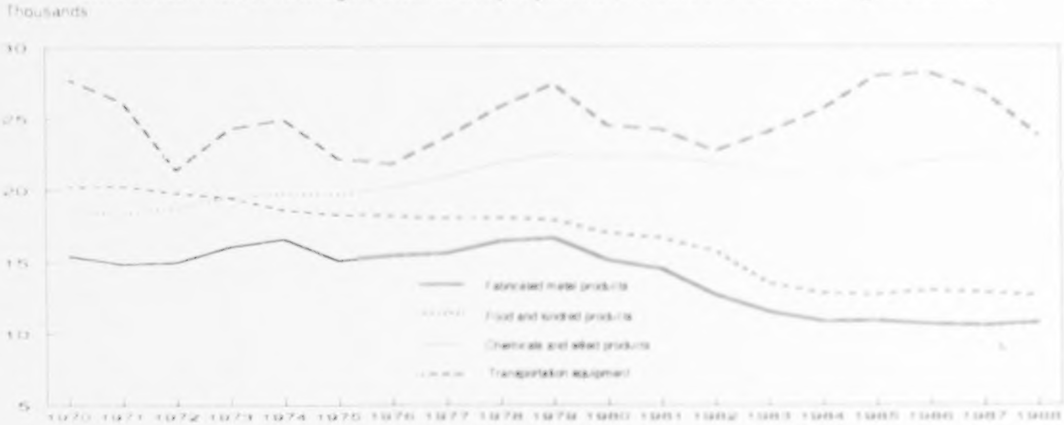
Industry	Employment (in thousands)			Employment Changes		Percent Recovery	
	1979	1983	1988	1979 - 1983	1983 - 1988	PMSA	Ohio
TOTAL	607.4	575.6	700.2	-31.8	124.6	391.4	150.5
Manufacturing	173.1	140.4	144.5	-32.7	4.1	12.6	11.7
Durable Goods	98.7	77.0	78.2	-21.7	1.2	5.5	7.8
Fabricated Metal Products	16.7	11.5	10.8	-5.2	-.7	–	7.2
Machinery, Except Electrical	26.7	19.4	20.8	-7.3	1.4	18.6	6.3
Metalworking Machinery	12.9	8.6	8.7	-4.3	.1	1.3	13.5
Electric and Electronic Equipment	9.4	8.1	8.5	-1.3	.5	39.9	–
Transportation Equipment	27.4	24.0	23.8	-3.4	-.3	–	28.8
Motor Vehicles and Equipment	12.7	9.2	5.0	-3.5	-4.2	–	23.9
Nondurable Goods	74.5	63.4	66.3	-11.1	2.9	26.6	29.0
Food and Kindred Products	17.9	13.5	12.7	-4.4	-.9	–	–
Printing and Publishing	13.0	11.6	13.4	-1.4	1.8	129.1	181.3
Chemicals and Allied Products	22.5	21.2	22.4	-1.2	1.2	98.8	22.0
Construction	27.4	20.4	31.3	-7.0	10.9	155.7	101.3
Transportation and Public Utilities	34.2	31.4	38.1	-2.8	6.7	240.3	38.7
Communication, Electric, Gas Services	13.2	14.7	15.4	1.4	.7	+	+ –
Wholesale Trade	37.8	36.5	44.4	-1.3	7.9	606.4	308.7
Retail Trade	102.2	104.7	135.2	2.5	30.5	+	527.1
Finance, Insurance, and Real Estate	32.1	32.8	42.2	.7	9.4	+	+
Services	117.4	129.7	175.8	12.4	46.1	+	+
Government	82.8	79.2	88.1	-3.6	8.9	249.9	227.4
Federal Government	13.3	12.4	15.4	-1.0	3.0	310.8	295.0
State Government	17.6	17.8	19.9	.2	2.1	+	+
Local Government	51.8	49.0	52.8	-2.8	3.8	136.5	107.2

+ No Downturn, 1979 – 1983.
– No Upturn, 1983 – 1988.

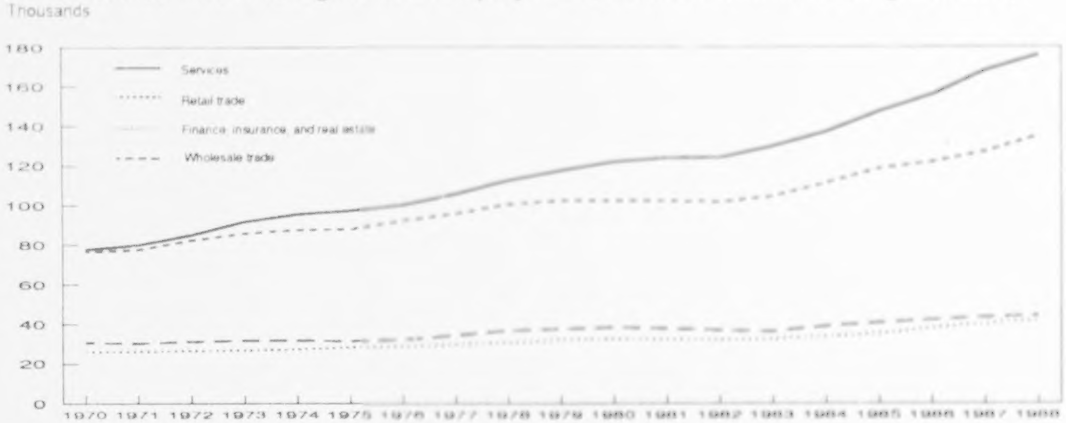
Indexes of Total Nonagricultural Wage and Salary Employment



Cincinnati PMSA Nonagricultural Employment (Selected Manufacturing Industries)



Cincinnati PMSA Nonagricultural Employment (Selected Nonmanufacturing Industries)



NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN CINCINNATI PMSA, 1988[a]
(in thousands)

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
TOTAL	700.2	677.2	676.6	679.5	694.4	700.1	704.2	701.8	705.1	711.9	712.4	720.5	718.6
MANUFACTURING	144.5	145.7	144.8	138.3	144.3	143.7	144.2	144.3	145.3	145.8	145.3	146.3	146.6
Durable Goods[b]	78.2	79.2	78.3	72.0	78.3	78.4	78.4	78.4	79.0	78.9	78.8	79.4	79.4
Fabricated metal products	10.8	11.0	10.8	10.8	10.7	10.7	10.6	10.6	10.7	10.7	10.8	10.9	11.0
Fabricated structural metal products	3.9	4.2	4.0	4.0	3.9	3.8	3.8	3.7	3.8	3.8	3.8	3.9	3.9
Machinery, except electrical	20.8	20.6	20.5	20.6	20.7	20.6	20.6	20.6	20.8	20.8	21.0	21.1	21.2
Metalworking machinery	8.7	8.6	8.5	8.6	8.6	8.6	8.7	8.8	8.8	8.7	8.8	8.8	8.7
General industrial machinery	3.0	3.0	3.0	3.0	3.0	2.9	2.9	3.0	3.0	3.0	3.0	3.1	3.1
Electric and electronic equipment	8.6	8.4	8.5	8.4	8.5	8.6	8.6	8.6	8.7	8.7	8.6	8.7	8.8
Transportation equipment	23.8	25.3	24.6	18.1[j]	24.3	24.1	24.1	24.2	24.3	24.1	24.1	24.1	23.9
Motor vehicles and equipment	5.0	5.2	4.9	4.9	4.9	4.9	4.9	4.9	5.0	5.0	5.0	5.1	5.1
Nondurable Goods[c]	66.3	66.6	66.5	66.3	65.9	65.3	65.8	65.9	66.3	66.9	66.5	67.0	67.1
Food and kindred products	12.7	12.4	12.2	12.4	12.4	12.2	12.4	12.5	12.9	13.1	13.1	13.1	13.2
Beverages	3.5	3.4	3.3	3.3	3.4	3.3	3.4	3.6	3.6	3.6	3.7	3.6	3.5
Apparel and other textile products	3.5	3.6	3.6	3.6	3.6	3.5	3.4	3.4	3.4	3.4	3.4	3.6	3.5
Paper and allied products	6.0	6.0	6.1	6.0	6.0	5.9	6.0	5.9	6.0	6.1	6.1	6.1	6.1
Printing and publishing	13.4	13.7	13.7	13.5	13.3	13.0	13.1	13.1	13.2	13.4	13.5	13.6	13.6
Commercial printing	6.1	6.2	6.2	6.2	6.1	5.9	6.0	6.0	6.0	6.1	6.2	6.2	6.2
Chemicals and allied products	22.4	22.5	22.5	22.5	22.3	22.4	22.6	22.7	22.7	22.7	22.1[j]	22.1[j]	22.3[j]
Rubber and misc. plastics products	6.1	6.1	6.1	6.1	6.1	6.1	5.9	5.9	5.9	5.9	6.0	6.2	6.2
NONMANUFACTURING[d]	555.6	531.4	531.8	541.2	550.1	556.4	560.0	557.5	559.8	566.0	567.0	574.2	572.0
CONSTRUCTION	31.3	26.8	26.5	28.1	29.8	31.1	32.1	33.1	33.8	33.9	34.3	33.8	32.6
TRANSPORTATION AND PUBLIC UTILITIES	38.1	36.5	36.9	37.1	37.4	37.6	37.9	38.0	38.2	39.1	39.3	39.4	39.6
Trucking and warehousing	10.6	9.9	10.0	10.1	10.3	10.4	10.6	10.7	10.8	11.1	11.2	11.3	11.4
Communication, electric, gas services	15.4	15.3	15.3	15.4	15.2	15.3	15.4	15.5	15.6	15.5	15.4	15.4	15.4
WHOLESALE TRADE	44.4	43.4	43.6	43.9	43.9	44.1	44.5	44.6	44.6	44.6	45.0	45.2	45.5
Wholesale trade-durable goods	26.2	25.5	25.7	25.7	25.8	26.0	26.2	26.4	26.5	26.4	26.6	26.7	26.7

See footnotes at end of table.

NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN CINCINNATI PMSA, 1988[a] (continued)
(in thousands)

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
RETAIL TRADE	135.2	129.5	128.4	130.0	132.5	133.9	134.8	135.9	136.6	137.3	138.5	141.3	143.6
General merchandise stores	20.0	19.7	18.6	19.2	19.2	19.3	19.4	19.8	20.0	20.2	20.5	21.8	22.8
FINANCE, INSURANCE, AND REAL ESTATE	42.2	41.0	41.2	41.4	41.8	41.9	42.5	42.7	42.8	42.7	42.6	42.9	43.0
Banking	9.1	8.8	8.9	8.9	8.9	8.9	9.1	9.2	9.2	9.2	9.1	9.2	9.2
Insurance carriers	14.4	14.2	14.3	14.4	14.4	14.4	14.5	14.5	14.5	14.5	14.5	14.5	14.5
SERVICES	175.8	166.3	167.0	171.0	175.1	177.9	180.2	180.3	181.0	180.6	177.6	176.0	177.2
Hotels and other lodging places	7.4	6.7	6.8	6.9	7.2	7.5	7.8	7.9	7.9	7.7	7.4	7.3	7.3
Personal services	8.9	8.7	8.9	9.0	9.2	8.8	8.9	8.8	8.9	9.0	9.0	9.0	9.1
Business services	42.6	39.9	40.1	40.8	41.2	41.8	42.2	43.3	43.8	44.2	44.6	44.6	44.8
Amusement and recreation services	9.2	5.9	5.8	7.5	9.6	11.5	13.0	12.6	12.7	11.4	7.6	6.0	7.0
Health services	53.8	52.7	52.8	53.2	53.4	53.3	53.9	54.2	54.5	54.4	54.4	54.4	54.5
Hospitals	25.7	25.4	25.4	25.4	25.4	25.3	25.7	25.8	26.0	25.8	26.0	26.0	26.1
GOVERNMENT	88.1	87.6	87.8	89.2	89.1	89.4	87.6	82.4	82.4	87.4	89.2	95.1	90.0
Federal government	15.4	15.4	15.3	15.8	15.9	15.4	15.1	14.9	15.0	15.3	15.3	15.3	15.6
State government	19.9	19.8	20.4	20.5	20.3	20.4	19.9	18.3	18.6	19.2	20.4	20.8	20.7
State government education	12.1	12.0	12.7	12.8	12.6	12.6	12.0	10.4	10.7	11.3	12.6	12.9	12.9
State government, except education ...	7.8	7.7	7.7	7.7	7.8	7.8	7.9	7.9	7.9	7.8	7.8	7.8	7.8
Local government	52.8	52.4	52.1	53.0	53.0	53.6	52.6	49.2	48.8	53.0	53.5	59.0	53.7
Local government education	29.7	30.3	30.8	30.9	30.6	31.0	29.4	25.6	25.3	29.9	30.4	31.0	30.9
Local government, except education ...	23.1	22.1	21.3	22.1	22.4	22.6	23.2	23.6	23.4	23.1	23.1	28.1	22.8

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Cincinnati area is defined as Clermont, Hamilton, and Warren Counties, Ohio; Dearborn County, Indiana; Boone, Campbell, and Kenton Counties, Kentucky. Based on March 1988 benchmark. Includes full- and part-time wage and salaried workers employed during pay periods which include the 12th of the month. Excludes self-employed, domestics, and armed forces. Subtotals may not add to totals, because of rounding or exclusion of minor groups. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; primary metal industries; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; petroleum and coal products; leather and leather products. [d] Includes mining. [e] Depressed due to labor-management disputes.

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus 43216 4-1-89 RS-790-1-3 (1988)

1.

NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN CINCINNATI PMSA, 1987[a]
(in thousands)

Industry	1987 Average	January	February	March	April	May	June	July	August	September	October	November	December
TOTAL	677.7	650.6	654.5	657.1	673.0	679.8	680.0	677.6	682.8	689.8	692.1	695.3	700.0
MANUFACTURING	146.0	142.9	146.2	142.7	146.9	147.6	144.7	146.1	149.5	146.4	145.9	146.7	146.9
Durable Goods[b]	79.5	77.9	80.7	77.2	81.1	81.4	78.2	78.8	82.3	79.6	78.6	79.3	79.3
Fabricated metal products	10.6	10.2	10.2	10.3	10.4	10.6	10.2	10.5	10.5	10.6	11.1	11.1	11.1
Fabricated structural metal products	4.2	3.9	3.9	4.0	4.2	4.3	3.9	4.1	4.1	4.2	4.[illegible]	4.4	4.3
Machinery, except electrical	20.7	20.7	20.5	20.4	20.5	20.7	20.8	20.9	20.8	20.8	20.6	20.6	20.5
Metalworking machinery	8.5	8.5	8.4	8.3	8.3	8.3	8.4	8.6	8.6	8.6	8.5	8.5	8.6
General industrial machinery	2.9	3.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.0	2.9	3.0	3.0
Electric and electronic equipment	7.7	7.4	7.5	7.1	7.4	7.5	7.7	7.7	7.8	8.1	8.0	8.1	8.3
Transportation equipment	26.8	26.2	29.1	25.8	29.1	29.0	25.8	25.9	29.1	26.1	24.6	25.5	25.5
Motor vehicles and equipment	6.2	5.6	8.5	5.2	8.5	8.5	5.2	5.1	8.5	5.4	4.1	5.1	5.2
Nondurable Goods[c]	66.5	65.0	65.5	65.6	65.8	66.2	66.5	67.3	67.2	66.7	67.3	67.4	67.6
Food and kindred products	12.9	12.6	12.6	12.8	13.0	13.1	12.9	13.0	13.0	12.7	12.9	12.8	12.8
Beverages	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.9	3.8	3.6	3.6	3.6	3.6
Apparel and other textile products	3.5	3.3	3.4	3.5	3.5	3.6	3.6	3.4	3.4	3.4	3.5	3.6	3.6
Paper and allied products	6.2	6.0	6.1	6.0	6.0	6.1	6.2	6.3	6.3	6.4	6.2	6.2	6.2
Printing and publishing	13.4	13.1	13.2	13.1	13.3	13.3	13.2	13.6	13.5	13.3	13.6	13.7	13.8
Commercial printing	5.9	5.5	5.7	5.8	5.7	5.8	5.9	6.0	6.0	6.0	6.1	6.1	6.2
Chemicals and allied products	22.4	22.1	22.3	22.4	22.1	22.2	22.5	22.7	22.6	22.5	22.4	22.5	22.5
Rubber and misc. plastics products	5.8	5.6	5.5	5.5	5.6	5.6	5.7	5.8	5.9	6.0	6.2	6.2	6.3
NONMANUFACTURING[d]	531.7	507.6	508.3	514.4	526.1	532.2	535.3	531.6	533.3	543.4	546.2	548.5	553.1
CONSTRUCTION	29.5	25.5	25.1	26.1	27.9	28.9	30.2	31.7	32.0	32.3	32.2	31.5	30.7
TRANSPORTATION AND PUBLIC UTILITIES	35.7	34.2	34.1	34.0	34.9	35.3	35.7	36.0	36.2	37.0	37.0	37.1	37.3
Trucking and warehousing	10.0	9.5	9.5	9.6	9.6	9.9	10.0	10.1	10.2	10.3	10.3	10.3	10.4
Communication, electric, gas services	15.1	15.0	14.9	14.9	14.9	14.9	15.1	15.3	15.3	15.3	15.1	15.1	15.2
WHOLESALE TRADE	43.7	43.3	43.4	43.7	43.5	43.4	43.6	43.8	43.6	43.6	44.1	44.0	44.3
Wholesale trade-durable goods	25.7	25.4	25.4	25.6	25.7	25.7	25.7	25.8	25.8	25.7	25.7	25.7	25.7

See footnotes at end of table.

NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN CINCINNATI PMSA, 1987[a] (continued)
(in thousands)

Industry	1987 Average	January	February	March	April	May	June	July	August	September	October	November	December
RETAIL TRADE	127.1	121.0	119.8	121.5	123.8	125.5	126.1	127.0	127.6	128.8	131.7	134.6	138.0
General merchandise stores	18.5	18.2	17.0	17.4	17.3	17.7	17.6	18.1	18.4	18.6	19.6	20.6	21.7
FINANCE, INSURANCE, AND REAL ESTATE	40.4	38.9	39.0	39.3	39.9	40.2	40.8	40.6	40.7	40.9	41.1	41.3	41.7
Banking	8.7	8.5	8.5	8.5	8.6	8.7	8.7	8.8	8.8	8.8	8.9	9.0	9.0
Insurance carriers	13.9	13.6	13.6	13.7	13.7	13.8	14.0	13.9	13.9	14.1	14.2	14.3	14.4
SERVICES	168.0	157.5	158.6	160.9	166.8	169.0	172.0	172.2	172.8	173.6	171.2	170.1	171.4
Hotels and other lodging places	6.7	5.7	5.8	6.0	6.3	6.5	6.8	7.1	7.4	7.3	7.1	7.1	7.1
Personal services	8.5	8.3	8.3	8.4	8.7	8.2	8.4	8.4	8.4	8.5	8.6	8.5	8.7
Business services	39.6	37.5	37.5	37.9	38.5	38.8	39.5	40.0	40.5	40.7	41.2	41.5	41.9
Amusement and recreation services	8.3	5.3	5.3	5.8	8.3	10.0	11.2	11.3	11.1	11.0	7.4	6.2	7.2
Health services	52.2	50.6	50.8	51.0	51.8	51.9	52.5	52.5	52.8	52.9	53.1	53.3	53.5
Hospitals	25.0	24.4	24.5	24.6	24.8	24.9	25.3	25.0	25.1	25.2	25.5	25.6	25.7
GOVERNMENT	86.8	86.9	87.9	88.6	89.0	89.5	86.5	79.9	79.9	86.7	88.5	89.3	89.2
Federal government	14.9	14.6	15.0	15.3	15.5	15.2	14.7	14.4	14.6	14.8	14.7	14.9	15.4
State government	19.8	19.7	20.2	20.3	20.4	20.4	19.8	18.1	18.3	19.3	20.4	20.6	20.4
State government education	11.9	11.8	12.3	12.5	12.4	12.4	11.7	10.1	10.2	11.4	12.6	12.8	12.6
State government, except education ...	7.9	7.9	7.8	7.8	8.0	7.9	8.1	8.1	8.1	7.9	7.8	7.7	7.7
Local government	52.1	52.6	52.7	52.9	53.1	53.9	52.0	47.3	46.9	52.6	53.4	53.9	53.4
Local government education	29.7	30.9	31.2	31.2	31.0	31.6	29.4	24.0	23.8	29.6	30.7	31.3	31.2
Local government, except education ...	22.4	21.7	21.5	21.7	22.1	22.3	22.7	23.3	23.2	23.0	22.7	22.6	22.2

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Cincinnati area is defined as Clermont, Hamilton, and Warren Counties, Ohio; Dearborn County, Indiana; Boone, Campbell, and Kenton Counties, Kentucky. Based on March 1988 benchmark. Includes full- and part-time wage and salaried workers employed during pay periods which include the 12th of the month. Excludes self-employed, domestics, and armed forces. Subtotals may not add to totals, because of rounding or exclusion of minor groups. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; primary metal industries; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; petroleum and coal products; leather and leather products. [d] Includes mining. [e] Depressed due to labor-management disputes.

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus 43216 4-1-89 RS-790-1-3 (1987)

AVERAGE HOURLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS IN CINCINNATI PMSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	$11.15	$11.16	$11.08	$10.80	$11.01	$11.06	$11.11	$11.10	$11.23	$11.25	$11.26	$11.31	$11.33
Durable Goods[b]	11.02	11.13	11.08	10.34	10.85	10.88	11.02	10.85	11.04	11.06	11.16	11.30	11.33
Fabricated metal products	9.98	9.98	9.89	9.77	9.89	9.89	9.98	9.97	10.04	10.06	10.06	10.07	10.15
Fabricated structural metal products..	10.37	9.95	9.96	9.75	9.95	10.02	10.26	10.59	10.64	10.73	10.74	10.83	10.90
Machinery, except electrical	10.14	10.10	10.06	10.04	10.10	9.99	10.08	10.12	10.10	10.21	10.28	10.37	10.22
Metalworking machinery	11.17	11.35	11.34	11.32	11.30	11.03	11.08	11.11	11.07	11.00	11.15	11.24	11.13
General industrial machinery	9.61	9.29	9.24	9.23	9.63	9.56	9.61	9.65	9.44	9.82	9.80	9.94	10.03
Electric and electronic equipment	8.60	8.56	8.45	8.46	8.47	8.37	8.34	8.53	8.58	8.55	8.85	8.89	9.03
Transportation equipment	15.49	15.29	15.42	16.25	15.01	15.26	15.47	15.16	15.48	15.52	15.48	15.82	16.03
Motor vehicles and equipment	17.04	16.36	16.70	16.86	16.92	17.04	17.33	16.41	17.11	17.24	17.10	17.38	17.70
Nondurable Goods[c]	11.27	11.18	11.07	11.17	11.16	11.22	11.21	11.33	11.40	11.44	11.36	11.31	11.34
Food and kindred products	11.80	12.02	11.61	11.66	11.74	11.71	11.61	12.17	11.79	11.80	11.89	11.81	11.77
Beverages	12.46	12.56	12.46	12.41	12.48	12.32	12.52	12.55	12.49	12.45	12.45	12.42	12.45
Apparel and other textile products	5.88	5.63	5.71	5.80	5.96	5.97	5.87	5.73	5.85	5.91	6.07	6.05	6.01
Paper and allied products	10.10	9.92	9.90	9.87	9.96	10.10	10.08	10.13	10.18	10.15	10.16	10.29	10.38
Printing and publishing	11.41	11.40	11.51	11.71	11.40	11.37	11.24	11.30	11.43	11.50	11.42	11.23	11.41
Commercial printing	11.54	11.60	11.79	12.01	11.40	11.39	11.37	11.38	11.60	11.57	11.46	11.21	11.60
Chemicals and allied products	13.19	12.98	12.85	12.99	13.03	13.17	13.19	13.22	13.41	13.45	13.32	13.37	13.24
Rubber and misc. plastics products	9.34	9.16	9.24	9.26	9.35	9.21	9.30	9.25	9.27	9.58	9.42	9.46	9.49
TRANSPORTATION AND PUBLIC UTILITIES	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Communication, electric, gas services ..	13.85	13.64	13.60	13.64	13.61	13.80	13.85	13.83	13.91	14.09	14.08	14.10	14.02
WHOLESALE TRADE	10.03	9.80	9.88	9.89	9.91	10.02	10.06	10.06	10.09	10.16	10.19	10.19	10.05
RETAIL TRADE[d]	5.73	5.73	5.70	5.65	5.71	5.72	5.67	5.68	5.71	5.78	5.79	5.83	5.82

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Cincinnati area is defined as Clermont, Hamilton, and Warren Counties, Ohio; Dearborn County, Indiana; Boone, Campbell, and Kenton Counties, Kentucky. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average earnings are computed from gross payroll before tax and other deductions. Includes pay for overtime, incentive bonuses paid regularly, holidays, vacations, and sick leave. Excludes special bonuses, retroactive pay, and payments in kind. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; primary metal industries; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; petroleum and coal products; leather and leather products. [d] Money payments only, tips not included. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus 43216 4-1-89 RS-790-4-3 (1988)

AVERAGE WEEKLY HOURS OF PRODUCTION OR NONSUPERVISORY WORKERS IN CINCINNATI PMSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	42.5	43.1	42.1	42.0	42.0	42.1	42.0	41.6	42.4	43.0	43.0	43.1	43.5
Durable Goods[b]	42.7	43.1	42.7	41.7	42.1	42.3	42.6	41.4	42.6	43.1	43.3	43.7	43.9
Fabricated metal products	42.7	42.9	41.8	40.6	42.1	42.3	42.0	42.2	42.4	43.3	43.4	44.6	44.4
Fabricated structural metal products	44.0	42.9	41.7	39.5	42.9	43.5	43.6	45.2	45.4	45.8	45.9	45.7	46.7
Machinery, except electrical	42.6	42.6	42.2	42.0	42.4	42.8	42.7	42.4	42.5	43.1	42.9	42.9	42.6
Metalworking machinery	43.9	43.4	42.7	43.6	43.4	44.6	44.5	44.1	44.5	44.7	44.2	43.4	43.4
General industrial machinery	43.5	44.3	44.0	42.1	44.0	44.2	45.6	43.8	41.4	43.9	41.7	43.3	44.0
Electric and electronic equipment	39.7	40.8	39.3	39.4	38.8	38.8	39.1	38.6	39.4	39.0	40.2	40.8	42.0
Transportation equipment	46.0	46.9	47.4	46.6	44.9	45.4	46.6	41.9	45.3	46.1	46.2	47.2	47.5
Motor vehicles and equipment	48.6	46.4	47.9	47.9	49.3	50.0	51.7	38.2	49.4	50.1	49.9	50.6	51.2
Nondurable Goods[c]	42.3	43.1	41.5	42.3	42.0	41.9	41.5	41.7	42.3	43.0	42.7	42.6	43.1
Food and kindred products	43.1	46.1	42.3	42.0	41.5	41.7	41.6	43.9	43.4	43.8	44.1	43.6	42.8
Beverages	41.4	42.4	42.5	41.9	41.6	41.0	41.5	41.9	41.8	40.9	40.5	40.3	41.2
Apparel and other textile products	38.1	36.8	36.7	39.9	38.5	38.2	37.0	36.5	36.9	38.4	39.1	39.9	39.5
Paper and allied products	42.7	42.5	41.6	41.9	42.6	42.5	41.9	41.7	43.2	44.1	43.7	43.4	43.5
Printing and publishing	40.6	41.5	41.2	41.6	40.1	39.9	39.7	40.4	40.5	41.5	39.5	39.3	41.5
Commercial printing	43.5	43.6	44.5	45.0	42.8	42.5	41.8	43.3	44.0	45.6	42.5	41.4	44.6
Chemicals and allied products	42.6	43.2	41.3	42.6	42.0	42.6	42.2	41.9	43.2	43.0	43.0	43.2	43.6
Rubber and misc. plastics products	44.6	44.2	42.4	43.6	46.5	44.2	43.2	41.7	43.0	45.4	47.1	46.5	46.8
TRANSPORTATION AND PUBLIC UTILITIES	....	....	....	....	....	....	....	....	....	....	....	....	....
Communication, electric, gas services	40.6	40.0	39.7	40.1	40.1	40.3	40.7	41.1	41.4	40.8	40.9	40.8	40.8
WHOLESALE TRADE	40.7	40.8	40.2	40.7	40.2	40.5	40.4	40.4	40.7	41.0	41.3	41.2	41.4
RETAIL TRADE	29.2	28.7	28.5	29.1	29.2	28.9	29.6	29.7	29.6	29.2	29.0	28.8	29.5

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Cincinnati area is defined as Clermont, Hamilton, and Warren Counties, Ohio; Dearborn County, Indiana; Boone, Campbell, and Kenton Counties, Kentucky. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average weekly hours are computed from the sum of hours worked plus hours paid for stand-by or reporting time, sick leave, holidays, and vacations. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; primary metal industries; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; petroleum and coal products; leather and leather products. [e] Low due to labor-management disputes during part of pay period. † Not comparable to previous estimates.

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus 43216 4-1-89 RS-790-3-3 (1988)

AVERAGE WEEKLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS IN CINCINNATI PMSA, 1988[a]

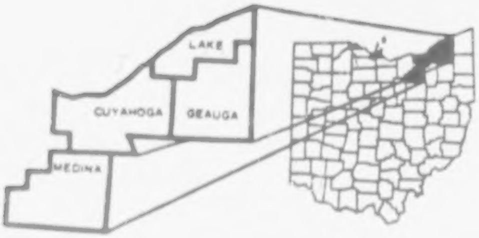
Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	$473.88	$481.00	$466.47	$453.60	$462.42	$465.63	$466.62	$461.76	$476.15	$483.75	$484.18	$487.46	$492.86
Durable Goods[b]	470.55	479.70	473.12	431.18	456.79	460.22	469.45	449.19	470.30	476.69	483.23	493.81	497.39
Fabricated metal products	426.15	428.14	413.40	396.66	416.37	418.35	419.16	420.73	425.70	435.60	436.60	449.12	450.66
Fabricated structural metal products..	456.28	426.86	415.33	385.13	426.86	435.87	447.34	478.67	483.06	491.43	492.97	494.93	509.03
Machinery, except electrical	431.96	430.26	424.53	421.68	428.24	427.57	430.42	429.09	429.25	440.05	441.01	444.87	435.37
Metalworking machinery	490.36	492.59	484.22	493.55	490.42	491.94	493.06	489.95	492.62	491.70	492.83	487.82	483.04
General industrial machinery	418.04	411.55	406.56	388.58	423.72	422.55	438.22	422.67	390.82	431.10	408.66	430.40	441.32
Electric and electronic equipment	341.42	349.25	332.09	333.32	328.64	324.76	326.09	329.26	338.05	333.45	355.77	362.71	379.26
Transportation equipment	712.54	717.10	730.91	757.25	673.95	692.80	720.90	635.20	701.24	715.47	715.18	746.70	761.43
Motor vehicles and equipment	828.14	759.10	799.93	807.59	834.16	852.00	895.96	626.86	845.23	863.72	853.29	879.43	906.24
Nondurable Goods[c]	476.72	481.86	459.41	472.49	468.72	470.12	465.22	472.46	482.22	491.92	485.07	481.81	488.75
Food and kindred products	508.58	554.12	491.10	489.72	487.21	488.31	482.98	534.26	511.69	516.84	524.35	514.92	503.76
Beverages	515.84	532.54	529.55	519.98	519.17	505.12	519.58	525.85	522.08	509.21	504.23	500.53	512.94
Apparel and other textile products	224.03	207.18	209.56	231.42	229.46	228.05	217.19	209.15	215.87	226.94	237.34	241.40	237.40
Paper and allied products	431.27	421.60	411.84	413.55	424.30	429.25	422.35	422.42	439.78	447.62	443.99	446.59	451.53
Printing and publishing	463.25	473.10	474.21	487.14	457.14	453.66	446.23	456.52	462.92	477.25	451.09	441.34	473.52
Commercial printing	501.99	505.76	524.66	540.45	487.92	484.08	475.27	492.75	510.40	527.59	487.05	464.09	517.36
Chemicals and allied products	561.89	560.74	530.71	553.37	547.26	561.04	556.62	553.92	579.31	578.35	572.76	577.58	577.26
Rubber and misc. plastics products	416.56	404.87	391.78	403.74	434.78	407.08	401.76	385.73	398.61	434.93	443.68	439.89	444.13
TRANSPORTATION AND PUBLIC UTILITIES	......	......	......	......	......	......	......	......	......	......	......	......	......
Communication, electric, gas services ..	562.31	545.60	539.92	546.96	545.76	556.14	563.70	568.41	575.87	574.87	575.87	575.28	572.02
WHOLESALE TRADE	408.22	399.84	397.18	402.52	398.38	405.81	406.42	406.42	410.66	416.56	420.85	419.83	416.07
RETAIL TRADE[d]	167.32	164.45	162.45	164.42	166.73	165.31	167.83	168.70	169.02	168.78	167.91	167.90	171.69
FINANCE, INSURANCE, AND REAL ESTATE	......	......	.....	......	......	......	......	......	......	......	......	......	......
Banking	260.96	255.28	259.51	260.29	260.41	256.87	260.77	265.67	262.51	262.00	262.95	262.11	262.76

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Cincinnati area is defined as Clermont, Hamilton, and Warren Counties, Ohio; Dearborn County, Indiana; Boone, Campbell, and Kenton Counties, Kentucky. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average earnings are computed from gross payroll before tax and other deductions. Includes pay for overtime, incentive bonuses paid regularly, holidays, vacations, and sick leave. Excludes special bonuses, retroactive pay, and payments in kind. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; primary metal industries; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; petroleum and coal products; leather and leather products. [d] Money payments only, tips not included. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus 43216 4-1-89 RS-790-2-3 (1988)

CLEVELAND

PRIMARY METROPOLITAN STATISTICAL AREA



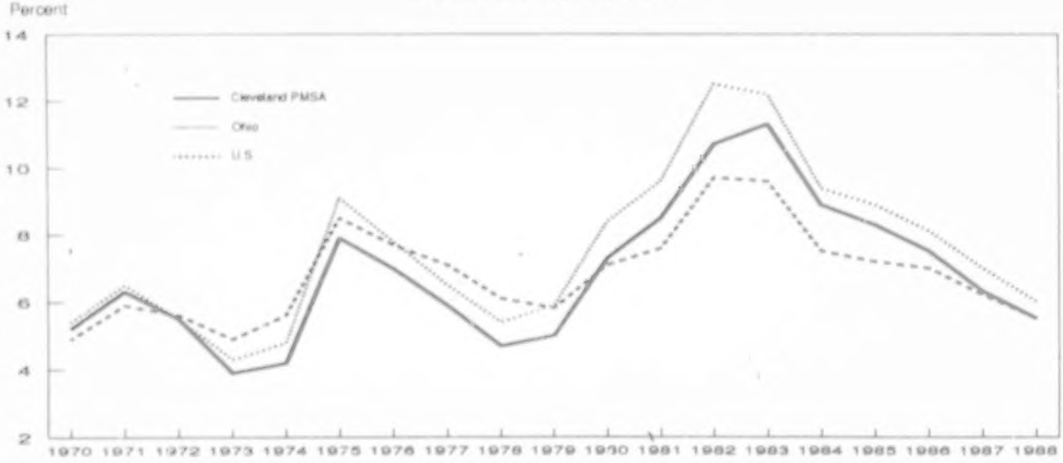
Based on place of residence, the estimated annual average civilian labor force in the Cleveland metropolitan area increased 6,700 from 1987 to 933,700 in 1988. Total employment gained 13,300 over the year, while unemployment recorded a decrease of 6,600. The unemployment rate dropped from 6.3 percent in 1987 to 5.5 percent in 1988. (See table, page 65, top.)

Total nonfarm payroll employment increased 13,000, from 891,600 in 1987 to 904,600 in 1988. Nonmanufacturing employment advanced 11,900 over the year. Significant improvements occurred in services, retail trade, finance, insurance, and real estate, and wholesale trade. Nearly 1,100 jobs were added to the manufacturing workforce during the period. Modest growth was noted in nonelectrical machinery and primary metal industries. Employment declined in food and kindred products, instruments and related products, printing and publishing, rubber and miscellaneous plastics products, and apparel and other textile products.

Nonagricultural wage and salary employment in the Cleveland area recovered 83.1 percent of jobs lost during the 1979-1983 recessionary period, a gain of 74,900. The primary growth sectors were services (+43,400) and retail trade (+21,700). Although manufacturing employment increased from 1987, it remained 5,600 below the 1983 recessionary level and 74,600 below the 1979 level. Noteworthy reductions during the post-recessionary period occurred in electric and electronic equipment, primary metal industries, nonelectrical machinery, and transportation equipment. Fabricated metal products recovered 7.8 percent of lost jobs, an increase of 1,100 above the 1983 level. (See table, page 65, bottom.)

Cleveland PMSA, Ohio and U.S. Unemployment Rates

Not Seasonally Adjusted



Cleveland PMSA Civilian Labor Force and Nonagricultural Wage and Salary Employment[a] (Employed and Unemployed in Thousands)

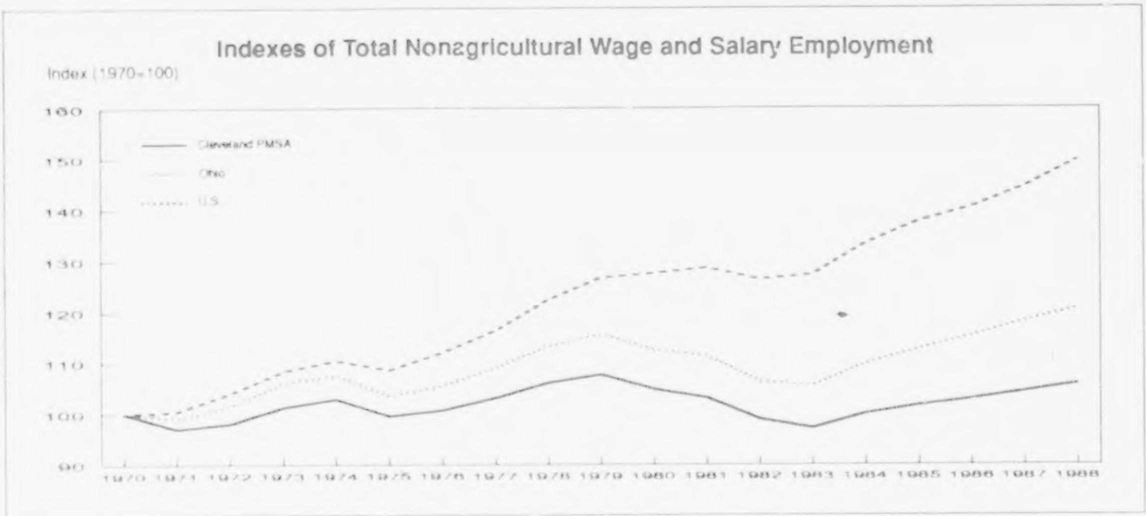
Civilian Labor Force							Nonagricultural Wage & Salary Employment		
	Employment							Manufacturing	
		Unemployment							Nonmfg.
			Unemployment Rate[b]						
			PMSA	Ohio	U.S.				
873.2	825.2	48.0	5.5	5.5	5.6	1972	838.1	273.9	564.2
883.9	849.0	34.9	3.9	4.3	4.9	1973	865.2	288.1	577.1
899.1	861.4	37.7	4.2	4.8	5.6	1974	879.2	287.1	592.1
896.9	826.3	70.6	7.9	9.1	8.5	1975	850.6	260.3	590.3
897.7	834.4	63.3	7.0	7.8	7.7	1976	860.0	265.1	594.9
908.5	854.4	54.0	5.9	6.5	7.1	1977	880.9	270.8	610.2
921.7	878.5	43.2	4.7	5.4	6.1	1978	905.8	275.6	630.2
935.8	889.1	46.7	5.0	5.9	5.8	1979	919.8	276.3	643.5
937.1	869.1	68.0	7.3	8.4	7.1	1980	895.7	254.9	640.8
933.9	854.0	79.8	8.5	9.6	7.6	1981	880.7	246.8	633.9
933.4	833.2	100.2	10.7	12.5	9.7	1982	844.6	223.0	621.7
928.7	823.4	105.3	11.3	12.2	9.6	1983	829.8	207.3	622.5
923.6	841.0	82.6	8.9	9.4	7.5	1984	854.5	213.8	640.7
926.0	849.2	76.8	8.3	8.9	7.2	1985	868.7	211.2	657.5
932.8	862.7	70.1	7.5	8.1	7.0	1986	879.2	204.9	674.4
927.0	869.0	58.0	6.3	7.0	6.2	1987	891.6	200.6	691.0
933.7	882.3	51.4	5.5	6.0	5.5	1988	904.6	201.7	702.9

[a] Civilian labor force estimates are based on place of residence.
Nonagricultural wage and salary employment estimates are based on place of work.
[b] Unemployment as percent of civilian labor force.

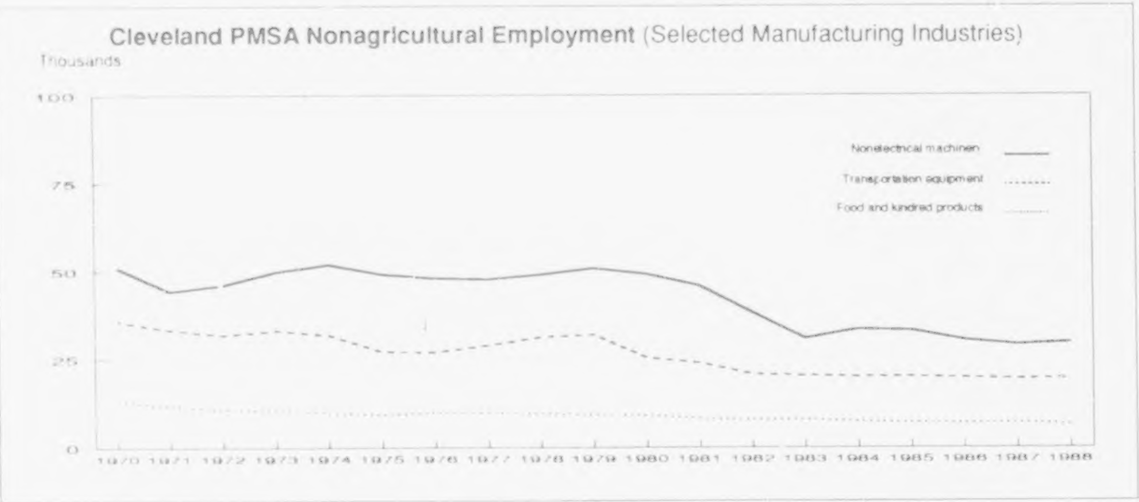
Nonagricultural Wage and Salary Employment in Selected Industries in the Cleveland Primary Metropolitan Statistical Area Annual Average Data for 1979, 1983, and 1988

Industry	Employment (in thousands)			Employment Changes		Percent Recovery	
	1979	1983	1988	1979 - 1983	1983 - 1988	PMSA	Ohio
TOTAL	919.8	829.8	904.6	-90.1	74.9	83.1	150.5
Manufacturing	276.3	207.3	201.7	-69.0	-5.6	—	11.7
Durable Goods	205.1	143.9	138.2	-61.2	-5.7	—	7.8
Primary Metal Industries	31.6	24.1	21.4	-7.6	-2.7	—	—
Fabricated Metal Products	45.5	31.1	32.2	-14.4	1.1	7.8	7.2
Machinery, Except Electrical	50.7	30.9	29.8	-19.8	-1.1	—	6.3
Electric and Electronic Equipment	26.5	21.3	17.9	-5.2	-3.4	—	—
Transportation Equipment	31.8	20.3	19.4	-11.5	-.9	—	28.8
Motor Vehicles and Equipment	24.0	13.9	12.2	-10.1	-1.8	—	23.9
Nondurable Goods	71.2	63.4	63.5	-7.8	.1	1.8	29.0
Construction	33.5	25.3	27.6	-8.2	2.3	28.0	101.3
Transportation and Public Utilities	47.8	40.9	41.4	-6.9	.4	6.6	38.7
Communication, Electric, Gas Services	18.9	19.4	17.5	.5	-1.9	+ —	+ —
Wholesale Trade	65.3	58.9	62.8	-6.4	3.9	60.6	308.7
Retail Trade	146.8	135.9	157.6	-10.9	21.7	200.2	527.1
Finance, Insurance, and Real Estate	47.9	48.4	56.9	.5	8.4	+	+
Services	182.5	195.7	239.1	13.3	43.4	+	+
Government	118.2	116.1	116.5	-2.1	.4	18.8	227.4

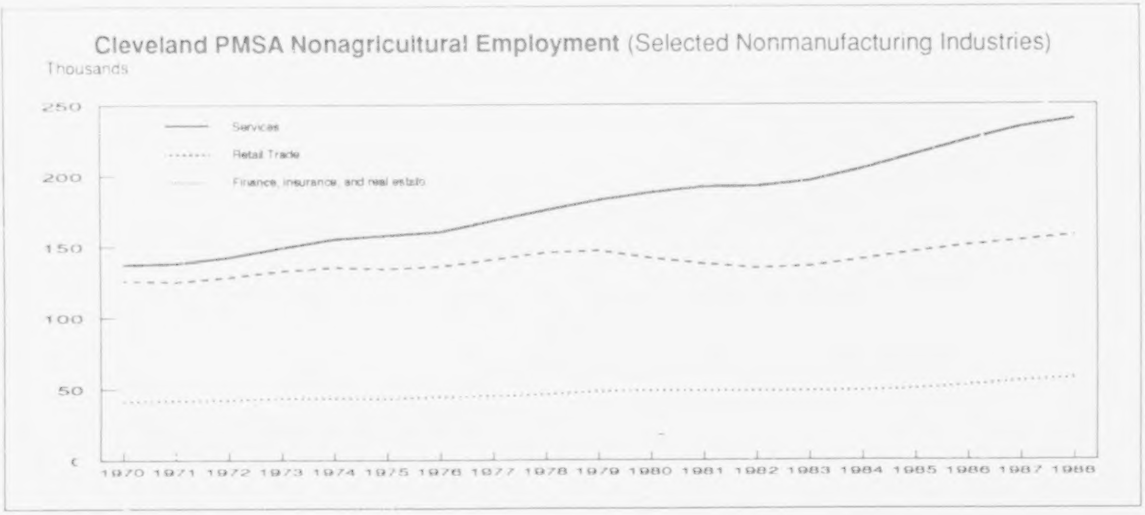
+ No Downturn, 1979 – 1983.
– No Upturn, 1983 – 1988.



Indexes of Total Nonagricultural Wage and Salary Employment



Cleveland PMSA Nonagricultural Employment (Selected Manufacturing Industries)



Cleveland PMSA Nonagricultural Employment (Selected Nonmanufacturing Industries)

NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN CLEVELAND PMSA, 1988[a]
(in thousands)

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
TOTAL	904.6	882.7	880.1	886.5	894.9	902.7	911.0	911.2	907.4	911.4	917.1	926.2	924.5
MANUFACTURING	201.7	200.4	199.3	200.2	200.1	200.6	202.2	200.8	200.9	202.8	203.7	204.5	205.4
Durable Goods[b]	138.2	137.3	136.6	137.1	137.2	137.2	138.4	137.4	137.5	138.7	139.6	140.4	141.0
Primary metal industries	21.4	21.2	21.3	21.4	21.4	21.3	21.4	21.2	21.1	21.5	21.5	21.7	21.8
Iron and steel foundries	4.7	4.8	4.8	4.8	4.8	4.7	4.7	4.7	4.4	4.7	4.6	4.7	4.7
Fabricated metal products	32.2	32.2	32.1	32.3	32.3	32.3	32.4	31.9	31.8	31.9	32.1	32.5	32.7
Fabricated structural metal products..	3.9	3.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.9	3.9	4.0	3.9
Screw machine products, bolts, etc. ..	4.8	4.9	4.9	4.9	4.9	4.9	4.9	4.8	4.8	4.8	4.8	4.8	4.9
Metal forgings and stampings	10.9	11.0	11.0	11.1	11.0	11.0	11.0	10.8	10.6	10.7	10.8	11.1	11.2
Machinery, except electrical	29.8	29.5	29.1	29.2	29.4	29.2	29.7	30.0	29.8	29.9	30.2	30.4	30.6
Construction and related machinery ...	2.6	2.6	2.6	2.5	2.6	2.5	2.6	2.6	2.6	2.5	2.6	2.5	2.6
Metalworking machinery	9.9	9.8	9.8	9.8	9.8	9.8	10.0	10.0	9.9	10.0	10.0	10.1	10.1
Special industry machinery	2.6	2.9	2.5	2.5	2.5	2.5	2.6	2.7	2.7	2.7	2.7	2.7	2.6
General industrial machinery	3.1	3.0	3.0	3.1	3.0	3.0	3.1	3.1	3.1	3.2	3.2	3.2	3.3
Electric and electronic equipment	17.9	17.8	17.7	17.8	17.7	17.8	18.2	17.5	18.0	18.0	18.0	17.9	17.9
Electrical industrial apparatus	6.3	6.1	6.1	6.1	6.1	6.3	6.5	5.9[j]	6.5	6.5	6.5	6.6	6.5
Transportation equipment	19.4	19.4	19.2	19.1	19.1	19.1	19.1	19.2	19.3	19.6	20.0	20.1	20.2
Motor vehicles and equipment	12.2	12.1	11.9	11.8	11.8	11.9	11.9	11.9	12.1	12.3	12.7	12.7	12.9
Instruments and related products	6.5	6.7	6.6	6.6	6.5	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Measuring and controlling devices	4.4	4.5	4.4	4.5	4.4	4.3	4.3	4.3	4.3	4.3	4.3	4.4	4.4
Nondurable Goods[c]	63.5	63.1	62.7	63.1	63.0	63.4	63.8	63.4	63.4	64.1	64.1	64.1	64.4
Food and kindred products	6.5	6.6	6.5	6.5	6.6	6.5	6.6	6.2	6.0	6.6	6.7	6.7	6.8
Apparel and other textile products	3.6	3.5	3.5	3.5	3.6	3.6	3.6	3.6	3.5	3.5	3.6	3.6	3.6
Paper and allied products	5.9	5.9	5.9	6.0	5.9	5.9	5.9	5.9	6.0	5.9	6.0	5.9	6.0
Printing and publishing	15.9	16.2	15.9	16.0	15.8	15.8	15.9	16.0	16.0	15.9	15.9	16.0	16.0
Chemicals and allied products	14.9	14.5	14.6	14.7	14.8	14.9	15.0	15.1	15.1	15.0	14.9	14.9	15.1
Rubber and misc. plastics products	11.4	11.3	11.3	11.2	11.2	11.4	11.4	11.3	11.4	11.6	11.6	11.6	11.7

See footnotes at end of table.

NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN CLEVELAND PMSA, 1988[a] (continued)
(in thousands)

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
NONMANUFACTURING[d]	702.9	682.3	680.8	686.3	694.8	702.1	708.8	710.4	706.5	708.6	713.4	721.7	719.1
CONSTRUCTION	27.6	24.0	23.2	24.4	26.0	27.6	29.0	30.0	30.2	30.1	30.0	29.3	27.8
TRANSPORTATION AND PUBLIC UTILITIES	41.4	40.3	40.0	40.3	40.8	41.2	41.6	41.7	41.8	41.8	42.1	42.1	42.4
Trucking and warehousing	12.1	11.6	11.7	11.7	11.8	11.9	12.1	12.1	12.2	12.2	12.4	12.5	12.8
Communication, electric, gas services	17.5	17.3	17.4	17.4	17.4	17.4	17.6	17.7	17.7	17.7	17.6	17.6	17.6
WHOLESALE TRADE	62.8	61.3	61.4	61.9	62.1	62.4	63.1	63.3	63.3	63.3	63.6	63.6	63.9
Wholesale trade-durable goods	43.6	42.8	42.8	43.1	43.2	43.3	43.8	43.9	44.0	43.9	44.1	44.2	44.3
RETAIL TRADE	157.6	154.1	151.7	152.3	154.5	157.1	158.4	158.6	158.6	158.5	159.8	162.1	166.0
General merchandise stores	20.8	21.7	20.5	20.0	20.0	20.1	20.2	20.1	19.9	20.2	20.9	22.3	23.5
FINANCE, INSURANCE, AND REAL ESTATE	56.9	55.4	55.4	55.7	56.0	56.3	57.2	57.8	58.0	57.6	57.7	57.6	57.8
Banking	14.2	14.0	14.0	14.0	14.0	14.0	14.1	14.4	14.5	14.3	14.3	14.2	14.2
Credit agencies other than banks	8.8	8.8	8.7	8.7	8.7	8.7	8.8	8.9	8.9	8.8	8.7	8.7	8.8
Insurance carriers	14.0	13.6	13.7	13.7	13.8	13.9	14.0	14.1	14.1	14.2	14.4	14.4	14.4
SERVICES	239.1	230.7	231.8	233.9	237.7	239.6	241.5	241.0	240.9	242.7	243.7	243.0	243.1
Business services	54.5	51.9	52.0	52.5	53.6	53.9	54.8	55.3	55.7	55.9	56.0	55.9	56.4
Amusement and recreation services	7.6	6.0	5.6	6.0	7.4	8.5	9.1	9.6	9.5	9.0	7.5	6.8	6.4
Health services	77.0	76.5	76.5	76.4	76.2	76.2	76.7	77.3	77.3	77.2	77.6	77.7	78.1
Hospitals	43.7	44.0	43.9	43.8	43.5	43.4	43.6	43.8	43.7	43.5	43.6	43.6	43.9
GOVERNMENT	116.5	115.4	116.3	116.9	116.7	117.0	117.3	117.2	112.6	113.5	115.5	122.8	117.0
Federal government	20.9	20.8	20.8	20.8	20.9	20.8	21.0	20.9	20.9	20.7	20.8	20.8	21.2
State government	8.3	8.0	8.2	8.5	8.7	8.3	8.6	8.3	7.9	7.7	8.3	8.1	8.6
State government education	3.1	3.0	3.3	3.4	3.4	3.1	3.3	2.9	2.6	2.6	3.3	3.1	3.6
State government, except education	5.1	5.1	5.0	5.0	5.3	5.2	5.3	5.4	5.3	5.1	5.0	5.0	5.1
Local government	87.4	86.6	87.3	87.6	87.2	87.9	87.7	88.0	83.9	85.0	86.4	93.9	87.2
Local government education	43.2	43.6	44.5	45.2	44.4	45.1	43.5	41.3	37.6	41.6	43.4	44.5	44.2
Local government, except education	44.1	43.0	42.7	42.4	42.8	42.9	44.2	46.7	46.3	43.4	43.0	49.4	42.9

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Cleveland area is defined as Cuyahoga, Geauga, Lake, and Medina Counties. Based on March 1988 benchmark. Includes full- and part-time wage and salaried workers employed during pay periods which include the 12th of the month. Excludes self-employed, domestics, and armed forces. Subtotals may not add to totals, because of rounding or exclusion of minor groups. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; stone, clay, and glass products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; petroleum and coal products; leather and leather products. [d] Includes mining. [e] Depressed due to labor-management disputes.

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus 43216 4-1-89 RS-790-1-4 (1988)

NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN CLEVELAND PMSA, 1987[a]
(in thousands)

Industry	1987 Average	January	February	March	April	May	June	July	August	September	October	November	December
TOTAL	891.6	867.1	868.5	871.3	880.2	889.5	899.3	900.9	898.7	896.6	905.4	908.7	913.2
MANUFACTURING	200.6	199.9	199.6	199.3	199.5	200.0	201.3	200.3	199.6	200.5	201.9	202.4	203.4
Durable Goods[b]	136.7	136.8	136.4	136.2	135.9	135.9	136.4	135.6	135.2	136.6	137.8	138.3	139.3
Primary metal industries	21.0	20.7	20.8	20.9	20.9	20.8	21.0	21.0	20.9	21.1	21.0	21.2	21.5
Iron and steel foundries	5.0	5.3	5.2	5.2	5.2	5.1	5.1	4.9	4.7	4.8	4.7	4.7	4.8
Fabricated metal products	32.0	31.7	31.5	31.6	32.0	32.2	32.5	31.9	31.8	31.9	32.1	32.2	32.5
Fabricated structural metal products	3.9	3.8	3.6	3.6	3.9	4.0	4.1	4.0	4.0	4.1	4.1	4.1	4.1
Screw machine products, bolts, etc.	4.8	4.6	4.6	4.6	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.9	5.0
Metal forgings and stampings	11.1	11.1	11.1	11.3	11.3	11.3	11.4	10.9	10.8	10.8	10.9	10.9	11.0
Machinery, except electrical	29.1	29.2	29.1	28.9	28.8	28.7	28.9	28.8	28.7	29.0	29.5	29.6	29.8
Construction and related machinery	2.5	2.5	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.6
Metalworking machinery	9.7	9.7	9.7	9.7	9.6	9.5	9.6	9.6	9.6	9.7	9.8	9.9	9.9
Special industry machinery	2.9	2.9	2.9	2.8	2.8	2.8	2.8	2.8	2.8	2.9	2.9	3.0	2.9
General industrial machinery	3.0	3.0	3.0	3.0	3.0	2.9	3.0	3.0	3.0	3.0	3.0	3.1	3.0
Electric and electronic equipment	17.7	18.4	18.2	18.0	17.6	17.6	17.3	17.3	17.3	17.4	17.7	17.8	17.9
Electrical industrial apparatus	6.0	6.1	6.1	6.1	6.0	5.9	6.0	5.9	5.9	6.0	6.1	6.2	6.2
Transportation equipment	19.4	19.5	19.6	19.5	19.3	19.2	19.3	19.0	18.9	19.5	19.5	19.6	19.7
Motor vehicles and equipment	12.1	12.3	12.4	12.4	12.1	11.9	11.9	11.6	11.5	12.0	12.1	12.2	12.3
Instruments and related products	6.8	6.9	6.8	6.9	6.7	6.7	6.7	6.7	6.8	6.8	6.7	6.8	6.8
Measuring and controlling devices	4.4	4.2	4.2	4.2	4.2	4.2	4.3	4.4	4.5	4.5	4.5	4.6	4.6
Nondurable Goods[c]	63.9	63.1	63.2	63.1	63.6	64.1	64.9	64.7	64.4	63.9	64.2	64.0	64.1
Food and kindred products	6.9	6.8	6.8	6.8	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.0
Apparel and other textile products	3.8	4.1	4.1	4.1	4.1	4.1	4.1	3.8	3.7	3.6	3.5	3.5	3.5
Paper and allied products	5.8	5.5	5.5	5.5	5.5	5.6	5.8	5.9	6.0	6.0	6.0	6.0	6.1
Printing and publishing	16.2	15.9	15.9	15.9	15.9	16.1	16.3	16.4	16.4	16.2	16.5	16.4	16.6
Chemicals and allied products	14.6	14.1	14.2	14.3	14.4	14.7	15.0	15.0	14.9	14.8	14.7	14.7	14.8
Rubber and misc. plastics products	11.7	11.8	11.9	11.8	11.8	11.9	11.9	11.6	11.5	11.5	11.5	11.5	11.2

See footnotes at end of table.

NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN CLEVELAND PMSA, 1987[a] (continued)

(in thousands)

Industry	1987 Average	January	February	March	April	May	June	July	August	September	October	November	December
NONMANUFACTURING[d]	691.0	667.2	669.0	672.1	680.7	689.5	697.9	700.6	699.1	696.1	703.4	706.3	709.8
CONSTRUCTION	28.4	23.7	23.2	24.0	25.8	28.4	29.9	31.1	31.4	31.2	31.7	30.8	29.6
TRANSPORTATION AND PUBLIC UTILITIES	41.5	40.5	40.4	40.6	41.2	41.2	41.3	42.0	41.8	42.0	42.1	42.1	42.2
Trucking and warehousing	11.9	11.1	11.1	11.3	11.7	11.8	12.0	12.2	12.2	12.4	12.1	12.2	12.7
Communication, electric, gas services	18.1	18.6	18.6	18.5	18.1	17.8	17.7	18.1	18.0	17.9	17.9	17.9	17.5
WHOLESALE TRADE	60.9	59.9	60.1	60.1	60.2	60.6	61.0	61.2	61.2	61.2	61.2	61.5	61.9
Wholesale trade-durable goods	42.2	41.6	41.7	41.7	41.8	42.0	42.3	42.4	42.4	42.4	42.5	42.6	42.8
RETAIL TRADE	154.0	149.5	149.0	148.6	150.5	153.5	154.9	155.0	154.9	154.4	156.0	158.6	163.5
General merchandise stores	20.9	21.3	20.6	20.5	20.3	20.2	20.4	20.2	20.1	20.1	20.8	22.5	23.7
FINANCE, INSURANCE, AND REAL ESTATE	54.9	53.0	53.3	53.5	53.6	54.2	55.1	56.0	56.2	56.1	56.2	56.1	56.1
Banking	13.8	13.2	13.2	13.2	13.3	13.4	13.7	14.0	14.1	14.2	14.3	14.3	14.3
Credit agencies other than banks	8.7	8.6	8.5	8.5	8.6	8.7	8.8	8.9	8.9	8.8	8.8	8.8	8.7
Insurance carriers	13.7	13.1	13.2	13.4	13.3	13.5	13.7	14.0	14.0	13.9	13.9	14.0	13.9
SERVICES	233.5	223.9	225.7	227.5	231.0	233.2	236.1	235.3	235.9	236.8	239.5	239.0	238.0
Business services	53.4	50.3	50.4	51.4	52.6	52.6	53.6	54.2	54.6	54.7	55.8	55.7	55.1
Amusement and recreation services	8.0	6.2	6.1	6.2	7.5	8.7	9.8	9.5	9.9	9.5	7.9	7.5	7.0
Health services	75.1	73.6	73.9	74.0	73.7	74.1	74.7	75.2	75.5	75.5	77.1	77.0	77.3
Hospitals	42.7	41.6	41.6	41.7	41.9	42.0	42.4	42.8	43.1	43.0	44.2	44.2	44.1
GOVERNMENT	116.8	115.4	116.2	116.8	117.4	117.6	118.6	118.9	116.7	113.3	115.6	117.2	117.4
Federal government	20.5	20.4	20.3	20.3	20.3	20.3	20.4	20.5	20.7	20.4	20.4	20.6	21.1
State government	8.3	8.4	8.3	8.6	8.8	8.1	8.5	8.2	7.9	7.7	8.2	8.2	8.5
State government education	3.1	3.1	3.3	3.3	3.4	3.0	3.3	2.8	2.4	2.5	3.2	3.2	3.5
State government, except education	5.2	5.3	5.0	5.2	5.4	5.1	5.3	5.3	5.4	5.2	5.0	5.0	5.0
Local government	88.0	86.6	87.6	87.9	88.3	89.1	89.6	90.3	88.1	85.2	87.1	88.4	87.9
Local government education	43.2	43.1	44.4	44.9	44.0	44.4	43.5	41.3	39.7	40.6	43.6	44.9	44.6
Local government, except education	44.8	43.5	43.1	43.0	44.4	44.7	46.1	49.0	48.5	44.7	43.4	43.5	43.3

[a]Estimated in cooperation with U.S. Bureau of Labor Statistics. Cleveland area is defined as Cuyahoga, Geauga, Lake, and Medina Counties. Based on March 1988 benchmark. Includes full- and part-time wage and salaried workers employed during pay periods which include the 12th of the month. Excludes self-employed, domestics, and armed forces. Subtotals may not add to totals, because of rounding or exclusion of minor groups. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b]Includes lumber and wood products; stone, clay, and glass products; miscellaneous manufacturing. [c]Includes tobacco manufactures; textile mill products; petroleum and coal products; leather and leather products. [d]Includes mining. [e]Depressed due to labor-management disputes.

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus 43216 4-1-89 RS-790-1-4 (1987)

AVERAGE HOURLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS IN CLEVELAND PMSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	$11.84	$11.71	$11.66	$11.73	$11.81	$11.83	$11.86	$11.69	$11.79	$11.91	$11.93	$12.03	$12.15
Durable Goods[b]	12.44	12.32	12.25	12.30	12.40	12.45	12.48	12.25	12.40	12.52	12.51	12.61	12.71
Primary metal industries	12.78	13.01	12.73	12.85	12.78	12.74	12.77	12.50	12.70	12.79	12.81	12.83	12.84
Iron and steel foundries	17.67	17.65	17.12	17.60	17.59	17.52	17.70	16.88	17.61	17.87	18.09	17.88	18.39
Fabricated metal products	12.48	12.45	12.44	12.19	12.36	12.55	12.66	12.28	12.40	12.39	12.46	12.68	12.83
Fabricated structural metal products..	9.80	9.64	9.51	9.61	9.74	9.76	9.83	9.78	9.82	9.89	9.91	9.92	10.11
Screw machine products, bolts, etc. ..	11.78	11.14	11.21	11.38	11.62	11.72	11.96	11.58	11.91	12.01	11.99	12.26	12.46
Metal forgings and stampings	15.11	15.20	15.13	14.62	14.94	15.19	15.36	14.91	15.03	14.96	14.98	15.29	15.65
Machinery, except electrical	11.80	11.39	11.51	11.74	11.73	11.80	11.77	11.62	11.59	11.86	12.05	12.17	12.23
Construction and related machinery ...	9.20	9.30	9.14	9.11	9.10	9.06	9.14	9.14	9.15	9.28	9.21	9.28	9.46
Metalworking machinery	10.99	10.72	10.68	10.82	10.78	10.76	10.73	10.89	10.98	11.08	11.40	11.41	11.52
Special industry machinery	11.57	11.82	11.82	11.72	11.69	11.52	11.63	11.40	11.35	11.43	11.40	11.52	11.61
General industrial machinery	11.31	11.38	11.47	11.28	11.32	11.22	11.13	11.26	11.12	11.37	11.33	11.20	11.57
Electric and electronic equipment	10.89	10.74	10.88	10.88	10.79	10.81	10.91	10.92	10.96	10.92	10.86	10.93	11.03
Electrical industrial apparatus	11.80	11.61	11.92	11.86	11.75	11.75	11.79	11.92	11.78	11.71	11.67	11.73	12.10
Transportation equipment	15.76	15.46	15.24	15.57	15.83	15.72	15.79	15.51	15.84	16.21	15.94	15.91	16.03
Motor vehicles and equipment	17.29	16.93	16.70	17.15	17.46	17.25	17.38	17.09	17.37	17.74	17.40	17.33	17.57
Instruments and related products	9.81	9.76	9.79	9.83	9.67	9.69	9.73	9.91	9.80	9.87	9.77	9.94	9.99
Measuring and controlling devices	10.46	10.28	10.36	10.41	10.20	10.28	10.38	10.65	10.44	10.51	10.54	10.73	10.70
Nondurable Goods[c]	10.30	10.17	10.16	10.24	10.29	10.23	10.22	10.25	10.21	10.30	10.42	10.47	10.61
Food and kindred products	9.76	9.31	9.21	9.35	9.44	9.54	9.71	9.94	9.95	9.98	10.10	10.19	10.42
Apparel and other textile products	8.32	8.36	8.37	8.32	8.26	8.21	8.25	8.25	8.26	8.26	8.33	8.44	8.54
Paper and allied products	11.25	11.21	11.06	11.13	11.27	11.15	11.09	11.20	11.23	11.43	11.38	11.36	11.44
Printing and publishing	10.78	10.52	10.59	10.82	10.86	10.79	10.83	10.67	10.61	10.82	11.03	10.84	11.03
Chemicals and allied products	11.86	11.93	11.93	11.83	11.89	11.76	11.65	11.69	11.65	11.74	11.86	12.15	12.30
Rubber and misc. plastics products	8.97	8.93	8.85	8.89	8.88	8.95	8.98	8.98	8.99	8.95	9.09	9.13	9.05
TRANSPORTATION AND PUBLIC UTILITIES	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Communication, electric, gas services ..	14.39	14.22	14.14	14.09	14.10	14.23	14.23	14.38	14.66	14.67	14.60	14.75	14.53
WHOLESALE TRADE	10.67	10.29	10.41	10.39	10.54	10.53	10.81	10.73	10.79	10.87	10.85	10.85	10.98
RETAIL TRADE[d]	6.64	6.58	6.57	6.66	6.68	6.65	6.60	6.67	6.59	6.67	6.65	6.67	6.65
SERVICES	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Health services	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hospitals	10.84	10.90	10.94	10.83	10.83	10.78	10.76	10.71	10.72	10.88	10.89	10.92	10.88

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Cleveland area is defined as Cuyahoga, Geauga, Lake, and Medina Counties. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average earnings are computed from gross payroll before tax and other deductions. Includes pay for overtime, incentive bonuses paid regularly, holidays, vacations, and sick leave. Excludes special bonuses, retroactive pay, and payments in kind. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; stone, clay, and glass products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; petroleum and coal products; leather and leather products. [d] Money payments only, tips not included. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus 43216 4-1-89 RS-790-4-4 (1988)

AVERAGE WEEKLY HOURS OF PRODUCTION OR NONSUPERVISORY WORKERS IN CLEVELAND PMSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	43.3	43.0	42.9	43.5	43.4	43.4	43.7	42.7	42.7	43.2	43.4	43.9	44.3
Durable Goods[b]	44.4	43.9	43.8	44.5	44.3	44.5	44.9	43.5	43.7	44.4	44.6	45.2	45.4
Primary metal industries	46.5	46.3	45.5	46.3	46.5	47.1	47.6	45.3	46.2	45.9	47.2	47.0	47.4
Iron and steel foundries	49.6	50.9	46.6	48.9	49.0	50.1	50.7	43.4	50.4	49.6	50.7	52.2	53.4
Fabricated metal products	44.3	44.5	44.2	43.8	44.0	44.3	45.0	43.0	43.3	44.3	44.3	45.1	45.8
Fabricated structural metal products	40.6	39.6	39.1	39.8	39.9	39.1	40.7	40.2	39.9	41.9	42.1	42.5	42.3
Screw machine products, bolts, etc.	46.1	46.9	46.3	46.6	46.1	45.4	47.0	44.7	44.8	46.3	45.9	46.2	47.3
Metal forgings and stampings	46.8	46.5	46.6	45.0	45.7	47.3	48.5	45.1	46.0	45.7	46.6	48.3	49.1
Machinery, except electrical	43.4	42.3	42.5	43.2	43.7	43.2	43.2	42.7	42.2	43.4	44.3	44.8	45.2
Construction and related machinery	44.2	47.4	44.9	45.0	44.5	43.7	44.3	44.0	43.4	43.6	42.7	42.5	44.1
Metalworking machinery	41.7	41.4	40.3	41.1	41.2	41.1	41.0	42.0	41.3	41.7	42.6	42.7	43.5
Special industry machinery	41.1	40.9	41.5	41.6	40.7	40.3	40.8	39.5	40.8	40.7	41.8	41.5	43.6
General industrial machinery	44.9	43.5	44.0	43.2	44.2	43.4	43.8	44.9	43.9	46.4	46.6	47.1	47.4
Electric and electronic equipment	42.0	42.2	43.3	43.5	41.3	41.2	42.2	41.6	41.0	42.0	41.7	41.5	42.3
Electrical industrial apparatus	44.4	42.2	45.9	46.0	43.4	43.1	44.6	44.8	44.5	45.1	44.8	43.6	45.1
Transportation equipment	47.3	46.0	45.5	46.8	48.1	48.4	48.6	46.3	47.2	47.7	46.8	47.8	47.8
Motor vehicles and equipment	47.9	46.1	45.3	47.1	49.0	49.2	49.0	46.3	48.1	49.0	47.4	48.8	48.9
Instruments and related products	41.8	41.8	41.7	43.3	41.2	41.5	42.5	42.7	40.9	41.4	40.9	42.1	42.1
Measuring and controlling devices	42.1	41.9	41.5	43.4	40.3	40.6	41.6	43.8	42.9	42.2	41.7	42.6	43.0
Nondurable Goods[c]	40.8	41.0	40.7	41.0	41.3	40.8	40.8	40.7	40.3	40.5	40.7	40.9	41.4
Food and kindred products	41.4	41.0	42.0	42.3	41.2	40.7	40.0	41.8	41.2	40.3	42.1	41.4	43.1
Apparel and other textile products	39.5	40.4	39.4	39.5	39.4	39.6	39.3	40.1	38.5	39.7	38.9	39.0	39.8
Paper and allied products	41.8	42.5	41.8	41.7	42.2	41.2	40.4	41.6	41.3	42.9	41.3	42.1	42.7
Printing and publishing	36.9	37.0	37.3	38.1	37.8	36.9	36.6	35.5	35.3	36.5	36.8	36.9	38.4
Chemicals and allied products	43.0	43.2	42.9	42.2	43.3	42.8	43.5	43.1	42.9	42.8	42.8	43.7	42.6
Rubber and misc. plastics products	42.9	43.1	42.2	42.6	43.3	43.1	43.8	42.8	43.1	42.3	42.7	42.8	42.7
TRANSPORTATION AND PUBLIC UTILITIES	....	....	....	....	....	....	....	....	....	....	....	....	....
Communication, electric, gas services	40.9	41.0	40.4	40.5	40.4	40.6	40.5	41.1	41.8	41.5	41.1	41.5	40.9
WHOLESALE TRADE	39.1	38.9	38.8	38.6	38.8	38.8	38.9	39.2	38.8	39.3	39.2	39.6	39.7
RETAIL TRADE	[illegible]	27.4	27.1	27.2	27.5	27.4	28.3	28.7	28.6	28.3	28.0	27.9	28.6
SERVICES	....	....	....	....	....	....	....	....	....	....	....	....	....
Health services	....	....	....	....	....	....	....	....	....	....	....	....	....
Hospitals	31.6	31.3	31.0	31.2	31.5	31.3	31.6	32.2	32.0	31.9	31.6	31.6	31.8

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Cleveland area is defined as Cuyahoga, Geauga, Lake, and Medina Counties. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average weekly hours are computed from the sum of hours worked plus hours paid for stand-by or reporting time, sick leave, holidays, and vacations. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; stone, clay, and glass products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; petroleum and coal products; leather and leather products. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus 43216 4-1-89 RS-790-3-4 (1988)

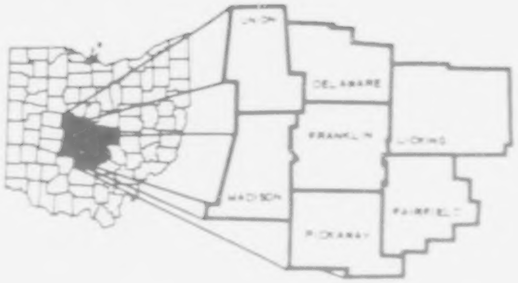
AVERAGE WEEKLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS IN CLEVELAND PMSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	$512.67	$503.53	$500.21	$510.26	$512.55	$513.42	$518.28	$499.16	$503.43	$514.51	$517.76	$528.12	$538.25
Durable Goods[b]	552.34	540.85	536.55	547.35	549.32	554.03	560.35	532.88	541.88	555.89	557.95	569.97	577.03
Primary metal industries	594.27	602.36	579.22	594.96	594.27	600.05	607.85	566.25	586.74	587.06	604.63	603.01	608.62
Iron and steel foundries	876.43	898.39	797.79	860.64	861.91	877.75	897.39	732.59	887.54	886.35	917.16	933.34	982.03
Fabricated metal products	552.86	554.03	549.85	533.92	543.84	555.97	569.70	528.04	536.92	548.88	551.98	571.87	587.61
Fabricated structural metel products..	397.88	381.74	371.84	382.48	388.63	381.62	400.08	393.16	391.82	414.39	417.21	421.60	427.65
Screw machine products, bolts, etc. ..	543.06	522.47	519.02	530.31	535.68	532.09	562.12	517.63	533.57	556.06	550.34	566.41	589.36
Metal forgings and stampings	707.15	706.80	705.06	657.90	682.76	718.49	744.96	672.44	691.38	698.63	698.07	738.51	768.42
Machinery, except electrical	512.12	481.80	489.18	507.17	512.60	509.76	508.46	496.17	489.10	514.72	533.82	545.22	552.80
Construction and related machinery ...	406.64	440.82	410.39	409.95	404.95	395.92	404.90	402.16	397.11	404.61	393.27	394.40	417.19
Metalworking machinery	458.28	443.81	430.40	444.70	444.14	442.24	439.93	457.38	453.47	462.04	485.64	487.21	501.12
Special industry machinery	475.53	483.44	490.53	487.55	475.78	464.26	474.50	450.30	463.08	465.20	476.52	478.08	506.20
General industrial machinery	507.82	495.03	504.68	487.30	500.34	486.95	487.49	505.57	488.17	527.57	527.98	527.52	548.42
Electric and electronic equipment	457.38	453.23	471.10	473.28	445.63	445.37	460.40	454.27	449.36	458.64	452.86	453.60	466.57
Electrical industrial apparatus	523.92	489.94	547.13	545.56	509.95	506.43	525.83	534.02	524.21	528.12	522.82	511.43	545.71
Transportation equipment	745.45	711.16	693.42	728.68	761.42	760.85	767.39	718.11	747.65	773.22	745.99	760.50	766.23
Motor vehicles and equipment	828.19	780.47	756.51	807.77	855.54	848.70	851.62	791.27	835.50	869.26	824.76	845.70	859.17
Instruments and related products	410.06	407.97	408.24	425.64	398.40	402.14	413.53	423.16	400.82	408.62	399.59	418.47	420.58
Measuring and controlling devices	440.37	430.73	429.94	451.79	411.06	417.37	431.81	466.47	447.88	443.52	439.52	457.10	460.10
Nondurable Goods[c]	420.24	416.97	413.51	419.84	424.98	417.38	416.98	417.18	411.46	417.15	424.09	428.22	439.25
Food and kindred products	404.06	381.71	386.82	395.51	388.93	388.28	388.40	415.49	409.94	402.19	425.21	421.87	449.10
Apparel and other textile products	328.64	337.74	329.78	328.64	325.44	325.12	324.23	330.83	318.01	327.92	324.04	329.16	339.89
Paper and allied products	470.25	476.43	462.31	464.12	475.59	459.38	448.04	465.92	463.80	490.35	469.99	478.26	488.49
Printing and publishing	397.78	389.24	395.01	412.24	410.51	398.15	396.38	378.79	374.53	394.93	405.90	400.00	423.55
Chemicals and allied products	509.98	515.38	511.80	499.23	514.84	503.33	506.78	503.84	499.79	502.47	507.61	530.96	523.98
-Rubber and misc. plastics products	384.81	384.88	373.47	378.71	384.50	385.75	393.32	384.34	387.47	378.59	388.14	390.76	386.44
TRANSPORTATION AND PUBLIC UTILITIES	......	......	......	......	......	......	......	......	......	......	......	......	......
Communication, electric, gas services ..	588.55	583.02	571.26	570.65	569.64	577.74	576.32	591.02	612.79	608.81	600.06	612.13	594.28
WHOLESALE TRADE	417.20	400.28	403.91	401.05	408.95	408.56	420.51	420.62	418.65	427.19	425.32	429.66	435.91
RETAIL TRADE[d]	185.26	180.29	178.05	181.15	183.70	182.21	186.78	191.43	188.47	188.76	186.20	186.09	190.19
FINANCE, INSURANCE, AND REAL ESTATE	......	......	......	......	......	......	......	......	......	......	......	......	......
Banking	302.21	301.26	296.92	298.20	303.50	298.97	306.99	308.15	302.51	306.30	300.29	297.21	305.76
SERVICES	......	......	......	......	......	......	......	......	......	......	......	......	......
Health services	......	......	......	......	......	......	......	......	......	......	......	......	......
Hospitals	342.54	341.17	339.14	337.90	341.15	337.41	340.02	344.86	343.04	347.07	344.12	345.07	345.98

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Cleveland area is defined as Cuyahoga, Geauga, Lake, and Medina Counties. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average earnings are computed from gross payroll before tax and other deductions. Includes pay for overtime, incentive bonuses paid regularly, holidays, vacations, and sick leave. Excludes special bonuses, retroactive pay, and payments in kind. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; stone, clay, and glass products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; petroleum and coal products; leather and leather products. [d] Money payments only, tips not included. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus 43216 4-1-89 RS-790-4-4 (1988)

COLUMBUS
METROPOLITAN
STATISTICAL
AREA

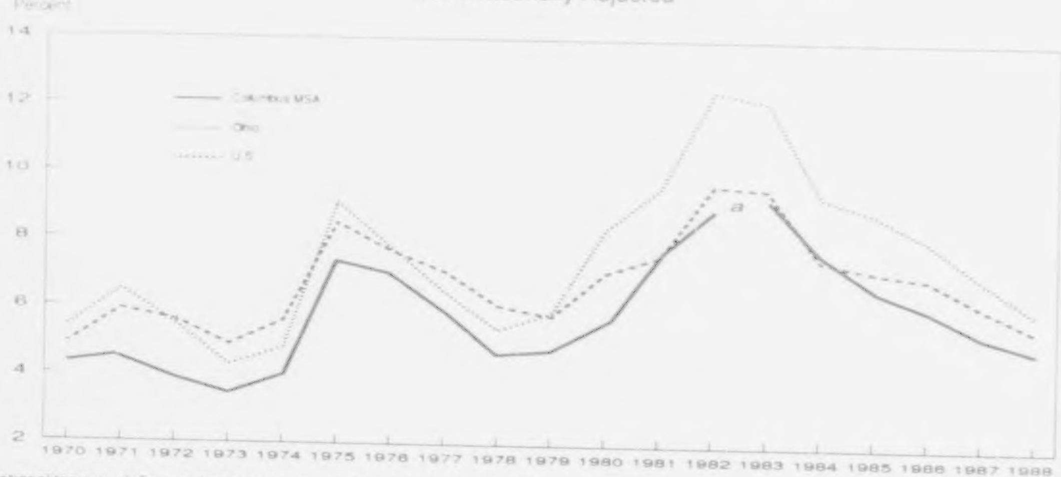


The estimated annual average civilian labor force in the Columbus metropolitan area, distributed by place of residence, was 711,500 in 1988, up 16,600 from the 1987 level. Total employment increased 19,300 over the year to 676,500, while unemployment decreased 2,700 to 35,000. The unemployment rate dropped from 5.4 percent in 1987 to 4.9 percent in 1988. (See table, page 75, top.)

Nonagricultural wage and salary employment increased 3.0 percent, from 658,000 in 1987 to 678,100 in 1988. Although all nonmanufacturing industries except mining recorded gains over the year, the leading growth sectors were services (+7,100), retail trade (+5,100), and local government (+3,000). The manufacturing workforce declined 1,300 during the period. Growth in nonelectrical machinery, rubber and miscellaneous plastics products, and printing and publishing was negated by a significant reduction in transportation equipment and less business in stone, clay, and glass products.

Nonfarm payroll employment in the Columbus area advanced 129,600 since the 1979-1983 recessionary period. Expansion in the nonmanufacturing sector contributed 97.0 percent of the gain. Significant employment increases were noted in services (+41,900) and retail trade (+35,600). Although manufacturing employment has declined from 1987, the industry remains 3,900 above the 1983 level. Post-recessionary gains occurred in printing and publishing and nonelectrical machinery. Employment in fabricated metal products and electric and electronic equipment continued their downward trends. (See table, page 75, bottom.)

Columbus MSA, Ohio and U.S. Unemployment Rates
Not Seasonally Adjusted



[a] Metropolitan area definition changed effective with data for 1983. Prior data are not strictly comparable.

Columbus MSA Civilian Labor Force and Nonagricultural Wage and Salary Employment[a] (Employed and Unemployed in Thousands)

Civilian Labor Force							Nonagricultural Wage & Salary Employment		
	Employment							Manufacturing	
		Unemployment							
			Unemployment Rate[b]						
			MSA	Ohio	U.S.				Nonmfg.
469.1	450.2	18.9	4.0	5.5	5.6	1972	472.8	115.0	357.9
485.5	468.3	17.1	3.5	4.3	4.9	1973	493.9	120.7	373.2
495.4	475.5	19.9	4.0	4.8	5.6	1974	501.8	119.4	382.4
495.0	458.6	36.5	7.4	9.1	8.5	1975	488.2	106.6	381.5
503.6	468.5	35.1	7.0	7.8	7.7	1976	500.0	108.1	392.0
513.4	483.3	30.1	5.9	6.5	7.1	1977	517.6	113.6	403.9
531.4	506.5	24.9	4.7	5.4	6.1	1978	543.2	117.0	426.2
543.0	517.1	25.8	4.8	5.9	5.8	1979	558.5	117.8	440.6
554.7	523.4	31.4	5.7	8.4	7.1	1980	560.2	112.6	447.7
562.4	519.1	43.3	7.7	9.6	7.6	1981	556.9	109.1	447.8
567.4	516.4	51.0	9.0	12.5	9.7	1982	544.0	101.0	443.0
647.7[c]	587.4[c]	60.3[c]	9.3[c]	12.2	9.6	1983	548.5	98.7	449.7
633.5	584.3	49.2	7.8	9.4	7.5	1984	576.4	104.7	471.6
649.4	605.6	43.8	6.7	8.9	7.2	1985	603.6	106.1	497.5
676.2	634.9	41.3	6.1	8.1	7.0	1986	630.7	105.8	525.0
694.9	657.2	37.7	5.4	7.0	6.2	1987	658.0	103.9	554.1
711.5	676.5	35.0	4.9	6.0	5.5	1988	678.1	102.6	575.5

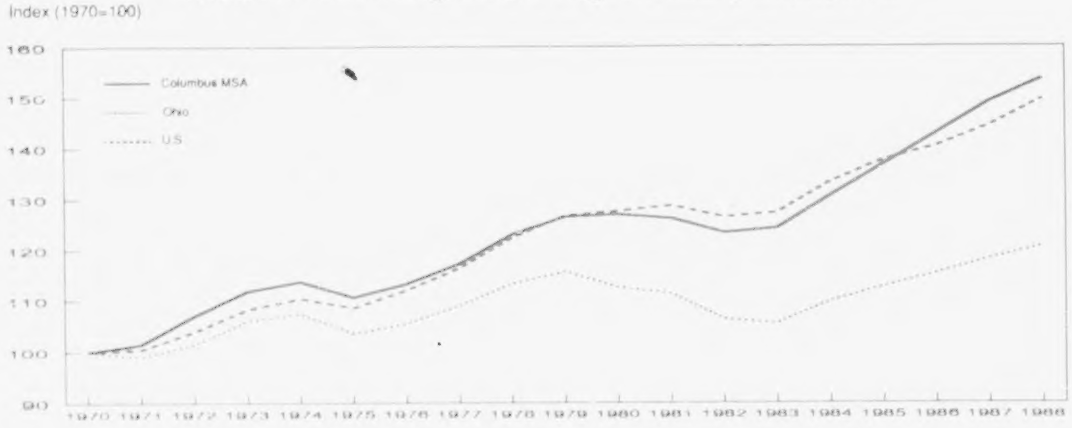
[a] Civilian labor force estimates are based on place of residence.
Nonagricultural wage and salary employment estimates are based on place of work.
[b] Unemployment as percent of civilian labor force.
[c] Data not comparable to previous years due to change in metropolitan area definition.

Nonagricultural Wage and Salary Employment in Selected Industries in the Columbus Metropolitan Statistical Area Annual Average Data for 1979, 1983, and 1988

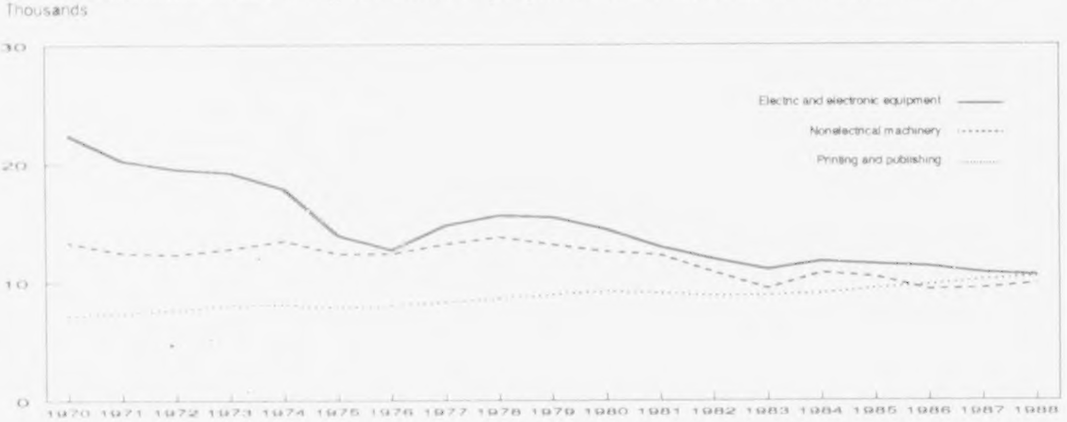
Industry	Employment (in thousands)			Employment Changes		Percent Recovery	
	1979	1983	1988	1979 - 1983	1983 - 1988	MSA	Ohio
TOTAL	558.5	548.5	678.1	-10.0	129.6	1299.9	150.5
Manufacturing	117.8	98.7	102.6	-19.1	3.9	20.4	11.7
Durable Goods	79.1	63.5	65.0	-15.6	1.5	9.6	7.8
Fabricated Metal Products	13.0	9.9	9.1	-3.1	-.8	–	7.2
Machinery, Except Electrical	13.2	9.5	9.8	-3.7	.4	9.6	6.3
Electric and Electronic Equipment	15.5	11.1	10.6	-4.4	-.5	–	–
Nondurable Goods	38.7	35.2	37.6	-3.5	2.4	68.7	29.0
Food and Kindred Products	11.0	10.3	10.3	-.7	.0	–	–
Printing and Publishing	8.9	8.9	10.5	.0	1.6	+	181.3
Construction	23.0	16.8	28.5	-6.2	11.6	189.0	101.3
Transportation and Public Utilities	27.3	24.7	29.7	-2.6	5.0	195.4	38.7
Communication, Electric, Gas Services	11.7	11.7	12.0	.0	.3	+	+ –
Wholesale Trade	28.8	29.0	34.7	.2	5.7	+	308.7
Retail Trade	101.4	102.9	138.5	1.5	35.6	+	527.1
Finance, Insurance, and Real Estate	38.3	45.0	58.2	6.8	13.2	+	+
Insurance Carriers	16.9	18.8	23.3	1.9	4.5	+	+
Services	108.7	119.6	161.5	10.9	41.9	+	+
Government	111.9	110.5	123.4	-1.4	12.9	904.0	227.4
Federal Government	14.6	14.3	15.3	-.3	1.0	312.0	295.0
State Government	48.8	48.8	54.0	.0	5.2	+	+
Local Government	48.5	47.4	54.1	-1.1	6.6	585.8	107.2

+ No Downturn, 1979 – 1983
\– No Upturn, 1983 – 1988

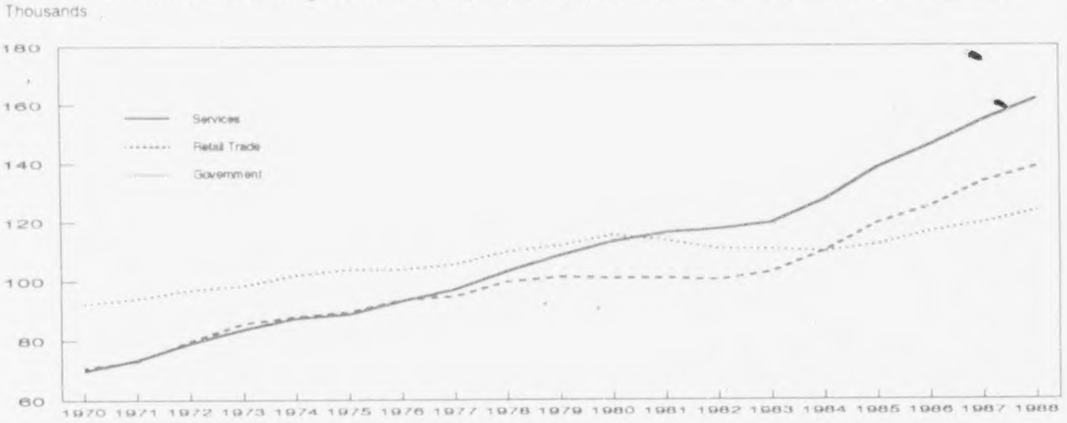
Indexes of Total Nonagricultural Wage and Salary Employment



Columbus MSA Nonagricultural Employment (Selected Manufacturing Industries)



Columbus MSA Nonagricultural Employment (Selected Nonmanufacturing Industries)



NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN COLUMBUS MSA, 1988[a]
(in thousands)

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
TOTAL	678.1	658.5	659.2	664.1	670.6	677.6	681.6	675.0	676.7	683.6	691.7	700.0	698.6
MANUFACTURING	102.6	102.2	101.5	101.0	101.6	101.8	102.7	102.4	102.8	103.9	103.9	104.1	104.0
Durable Goods[b]	65.0	65.1	64.5	63.7	64.1	64.2	64.8	64.6	65.1	66.1	66.0	66.2	66.0
Stone, clay, and glass products	10.1	9.9	10.0	10.0	10.0	9.9	10.2	10.0	10.1	10.1	10.2	10.3	10.0
Glass and glassware, pressed or blown	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.1	3.2	3.1	3.3	3.4	3.2
Fabricated metal products	9.1	8.9	8.7	8.7	8.9	8.9	9.1	9.0	9.0	9.3	9.3	9.4	9.5
Fabricated structural metal products	2.5	2.4	2.5	2.4	2.4	2.3	2.4	2.4	2.5	2.5	2.6	2.5	2.5
Machinery, except electrical	9.8	10.0	9.9	9.9	9.9	9.8	9.8	9.7	9.7	9.9	9.8	9.8	9.7
Electric and electronic equipment	10.6	10.6	10.5	10.4	10.5	10.7	10.7	10.7	10.6	10.7	10.6	10.6	10.5
Transportation equipment	12.8	13.5	12.9	12.3	12.4	12.5	12.5	12.5	12.9	13.2	13.0	13.0	13.2
Instruments and related products	4.1	4.1	4.1	4.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.2
Nondurable Goods[c]	37.6	37.0	37.0	37.2	37.4	37.6	37.9	37.9	37.7	37.8	37.9	37.9	37.9
Food and kindred products	10.3	10.3	10.1	10.2	10.3	10.3	10.3	10.3	10.4	10.4	10.4	10.3	10.3
Printing and publishing	10.5	10.3	10.3	10.4	10.3	10.3	10.5	10.5	10.4	10.5	10.6	10.7	10.7
Chemicals and allied products	6.7	6.7	6.7	6.7	6.7	6.7	6.8	6.9	6.9	6.8	6.7	6.6	6.6
Rubber and misc. plastics products	5.5	5.2	5.3	5.4	5.4	5.5	5.6	5.6	5.5	5.5	5.6	5.7	5.7
NONMANUFACTURING[d]	575.5	556.3	557.7	563.2	569.1	575.8	579.0	572.6	573.9	579.7	587.8	595.9	594.6
CONSTRUCTION	28.5	24.5	24.4	25.4	26.7	28.2	29.3	30.5	31.2	31.2	31.1	30.3	29.2
TRANSPORTATION AND PUBLIC UTILITIES	29.7	28.7	28.9	28.9	29.2	29.4	29.6	29.8	30.0	30.3	30.4	30.4	30.8
Trucking and warehousing	12.3	11.8	11.9	11.9	12.0	12.1	12.2	12.3	12.5	12.6	12.7	12.8	13.2
Communication, electric, gas services	12.0	11.9	11.9	11.9	12.0	12.0	12.0	12.1	12.1	12.1	12.0	12.0	12.0
WHOLESALE TRADE	34.7	33.9	33.9	34.1	34.3	34.4	34.6	34.8	34.8	35.1	35.4	35.6	35.8
Wholesale trade-durable goods	22.4	21.9	21.9	22.0	22.1	22.3	22.3	22.4	22.5	22.7	22.7	22.8	22.9

See footnotes at end of table.

NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN COLUMBUS MSA, 1988[a] (continued)
(in thousands)

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
RETAIL TRADE	138.5	134.5	133.0	134.3	135.7	137.6	138.0	138.1	139.4	140.3	141.3	143.6	146.4
General merchandise stores	20.6	20.8	20.0	20.1	20.2	20.4	20.3	20.1	20.3	20.5	20.7	21.3	22.3
FINANCE, INSURANCE, AND REAL ESTATE	58.2	56.8	56.9	57.5	57.5	57.9	58.3	59.1	59.2	58.9	58.7	58.8	58.8
Banking	11.4	11.0	11.0	11.4	11.4	11.4	11.4	11.6	11.6	11.6	11.6	11.6	11.7
Insurance carriers	23.3	23.0	23.0	23.1	23.1	23.1	23.2	23.3	23.4	23.4	23.4	23.5	23.5
SERVICES	161.5	154.3	156.2	157.9	160.3	162.2	162.6	163.1	162.9	164.5	164.8	165.0	164.4
Business services	37.5	35.4	35.5	35.9	36.5	37.0	37.3	38.0	38.3	38.3	39.0	39.1	39.4
Health services	41.4	40.6	40.6	40.8	40.8	40.9	41.3	41.7	41.7	41.8	41.9	42.1	42.2
Hospitals	19.0	18.8	18.8	18.9	18.8	18.8	18.9	19.2	19.1	19.2	19.2	19.4	19.3
GOVERNMENT	123.4	122.7	123.5	124.2	124.5	125.1	125.6	116.2	115.5	118.5	125.2	131.3	128.2
Federal government	15.3	15.4	15.4	15.4	15.4	15.4	15.3	15.2	15.2	14.9	15.1	15.2	15.4
State government	54.0	54.3	54.6	55.0	55.1	55.3	56.1	50.6	50.3	49.6	54.9	55.7	57.1
State government education[f]	22.7	23.4	23.9	24.1	24.1	24.1	24.5	18.6	18.6	18.2	23.7	24.3	25.4
State government, except education	31.3	31.0	30.7	30.9	31.1	31.2	31.6	32.0	31.7	31.4	31.3	31.3	31.7
Local government	54.1	53.0	53.6	53.8	54.0	54.4	54.1	50.3	50.0	54.1	55.2	60.4	55.8
Local government education	32.1	32.1	32.7	33.0	32.9	33.0	32.2	28.0	27.9	32.5	33.5	33.6	33.8
Local government, except education	22.0	20.9	20.9	20.8	21.1	21.4	21.9	22.3	22.1	21.6	21.7	26.8	22.0

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Columbus area is defined as Delaware, Fairfield, Franklin, Licking, Madison, Pickaway, and Union Counties. Based on March 1988 benchmark. Includes full- and part-time wage and salaried workers employed during pay periods which include the 12th of the month. Excludes self-employed, domestics, and armed forces. Subtotals may not add to totals, because of rounding or exclusion of minor groups. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; primary metal industries; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; petroleum and coal products; leather and leather products. [d] Includes mining. [e] Depressed due to labor-management disputes. [f] Includes State universities, State schools for deaf and blind, and the State library. Excludes hospitals, the agricultural extension service, agricultural research centers, and the Ohio Department of Education.

Labor Market Information Division
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NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN COLUMBUS MSA, 1987[a]
(in thousands)

Industry	1987 Average	January	February	March	April	May	June	July	August	September	October	November	December
TOTAL	658.0	641.5	641.9	647.1	650.8	657.4	660.5	653.9	656.6	662.7	672.0	674.9	677.2
MANUFACTURING	103.9	104.0	103.2	103.4	103.4	103.5	103.4	103.8	104.2	104.5	104.8	104.6	104.1
Durable Goods[b]	66.9	67.6	66.9	66.9	67.0	66.8	66.5	66.6	66.8	67.0	67.4	67.1	66.5
Stone, clay, and glass products	10.7	10.6	10.5	10.6	10.8	10.8	10.8	10.5	10.9	10.8	10.8	10.8	10.6
Glass and glassware, pressed or blown	4.0	4.2	4.2	4.3	4.2	4.2	4.2	3.7	4.1	3.9	3.9	3.9	3.7
Fabricated metal products	9.2	9.4	9.4	9.5	9.4	9.2	9.1	9.1	8.9	9.1	9.0	9.1	9.1
Fabricated structural metal products	2.7	2.7	2.7	2.8	2.8	2.7	2.8	2.8	2.7	2.7	2.6	2.5	2.5
Machinery, except electrical	9.5	9.1	9.1	9.1	9.2	9.3	9.3	9.4	9.5	9.6	9.8	9.9	9.9
Electric and electronic equipment	10.8	11.0	11.0	11.0	10.7	10.8	10.8	10.7	10.7	10.7	10.7	10.6	10.7
Transportation equipment	14.8	16.0	15.4	15.1	15.3	14.9	14.5	14.8	14.6	14.5	14.5	13.9	13.4
Instruments and related products	4.2	4.1	4.1	4.1	4.1	4.1	4.1	4.2	4.2	4.2	4.2	4.2	4.2
Nondurable Goods[c]	37.0	36.4	36.3	36.5	36.4	36.7	36.9	37.2	37.4	37.5	37.5	37.6	37.6
Food and kindred products	10.2	9.8	9.9	10.0	9.9	10.1	10.3	10.5	10.5	10.5	10.4	10.3	10.4
Printing and publishing	10.2	10.0	10.0	10.0	10.1	10.1	10.1	10.1	10.1	10.2	10.4	10.5	10.5
Chemicals and allied products	6.8	6.8	6.7	6.7	6.7	6.8	6.8	6.9	6.8	6.8	6.8	6.8	6.8
Rubber and misc. plastics products	5.2	5.2	5.2	5.2	5.0	5.1	5.1	5.2	5.3	5.3	5.2	5.2	5.2
NONMANUFACTURING[d]	554.1	537.5	538.6	543.7	547.4	553.9	557.2	550.1	552.4	558.2	567.2	570.3	573.0
CONSTRUCTION	27.0	23.1	23.0	23.9	25.2	27.0	28.1	29.4	29.5	29.6	29.0	28.5	27.6
TRANSPORTATION AND PUBLIC UTILITIES	28.2	27.3	27.2	27.4	27.3	27.7	27.8	28.4	28.6	28.8	29.2	29.3	29.4
Trucking and warehousing	11.8	11.3	11.3	11.4	11.1	11.4	11.5	11.8	11.9	12.0	12.3	12.5	12.7
Communication, electric, gas services	11.8	11.6	11.6	11.6	11.6	11.7	11.6	12.0	12.0	12.0	12.0	12.0	11.9
WHOLESALE TRADE	33.8	32.8	33.0	33.2	33.1	33.6	33.7	33.7	33.7	33.9	34.6	34.8	35.0
Wholesale trade-durable goods	21.7	21.2	21.4	21.4	21.4	21.8	21.8	21.8	21.7	21.8	22.0	22.0	22.1

See footnotes at end of table.

NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN COLUMBUS MSA, 1987[a] (continued)
(in thousands)

Industry	1987 Average	January	February	March	April	May	June	July	August	September	October	November	December
RETAIL TRADE	133.4	129.1	128.2	129.4	130.4	132.6	132.5	132.4	134.1	135.0	136.4	139.2	141.9
General merchandise stores	21.2	20.8	20.2	20.3	20.9	21.1	20.9	20.7	20.9	21.2	21.4	22.2	23.2
FINANCE, INSURANCE, AND REAL ESTATE	57.0	55.7	56.1	56.2	56.2	56.5	57.1	57.9	57.8	57.5	57.6	57.5	57.6
Banking	11.4	11.4	11.3	11.4	11.3	11.2	11.3	11.5	11.4	11.4	11.4	11.4	11.3
Insurance carriers	22.8	22.3	22.5	22.6	22.4	22.5	22.7	22.8	22.9	22.9	23.0	23.1	23.1
SERVICES	154.4	148.8	150.1	151.9	152.9	154.1	154.5	155.9	155.3	156.9	158.3	157.4	156.7
Business services	35.1	33.9	34.1	34.3	33.9	34.0	34.3	35.5	35.6	35.6	36.9	36.8	36.7
Health services	39.2	38.4	38.6	39.0	38.9	38.8	39.1	39.5	39.6	39.6	39.7	39.6	39.6
Hospitals	17.6	17.0	17.1	17.2	17.3	17.3	17.5	17.8	17.9	17.9	17.9	18.0	18.0
GOVERNMENT	119.4	119.8	120.2	120.9	121.3	121.5	122.4	111.4	112.4	115.6	121.1	122.5	124.0
Federal government	15.7	15.7	15.6	15.6	15.7	15.7	15.8	15.7	15.8	15.7	15.7	15.8	15.8
State government	52.7	53.6	53.4	53.8	53.9	53.9	54.4	48.7	48.9	48.3	53.6	54.2	55.4
State government education[f]	22.2	23.3	23.4	23.5	23.5	23.5	23.8	18.1	17.9	17.7	23.2	23.8	24.9
State government, except education ...	30.5	30.3	30.0	30.3	30.5	30.4	30.6	30.7	31.1	30.6	30.3	30.4	30.5
Local government	51.0	50.6	51.2	51.5	51.6	51.9	52.2	46.9	47.7	51.6	51.9	52.5	52.8
Local government education	30.4	30.9	30.9	31.2	31.2	31.4	31.0	25.8	26.8	30.7	31.4	32.0	32.0
Local government, except education ...	20.6	19.7[e]	20.3	20.3	20.4	20.5	21.1	21.1	20.9	20.9	20.5	20.6	20.8

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Columbus area is defined as Delaware, Fairfield, Franklin, Licking, Madison, Pickaway, and Union Counties. Based on March 1988 benchmark. Includes full- and part-time wage and salaried workers employed during pay periods which include the 12th of the month. Excludes self-employed, domestics, and armed forces. Subtotals may not add to totals, because of rounding or exclusion of minor groups. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; primary metal industries; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; petroleum and coal products; leather and leather products. [d] Includes mining. [e] Depressed due to labor-management disputes. [f] Includes State universities, State schools for deaf and blind, and the State library. Excludes hospitals, the agricultural extension service, agricultural research centers, and the Ohio Department of Education.

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AVERAGE HOURLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS IN COLUMBUS MSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	$11.57	$11.32	$11.45	$11.49	$11.57	$11.60	$11.57	$11.54	$11.56	$11.63	$11.66	$11.68	$11.76
Durable Goods[b]	11.75	11.47	11.65	11.68	11.78	11.82	11.78	11.75	11.73	11.81	11.84	11.83	11.90
Stone, clay, and glass products	11.72	11.63	11.55	11.76	11.68	11.66	11.83	11.88	11.86	11.75	11.63	11.61	11.78
Glass and glassware, pressed or blown	10.93	11.16	10.95	11.02	10.93	10.76	10.87	11.07	10.82	11.04	10.98	10.80	10.79
Fabricated metal products	12.48	12.23	12.30	12.27	12.66	12.69	12.67	12.49	12.36	12.40	12.48	12.59	12.62
Fabricated structural metal products	11.00	10.79	11.15	10.88	10.97	10.93	10.89	11.06	11.08	10.81	11.22	11.18	11.00
Machinery, except electrical	10.82	10.62	10.63	10.62	10.69	10.73	10.71	10.97	10.70	11.03	10.83	10.95	11.32
Electric and electronic equipment	11.21	11.02	11.07	11.17	11.29	11.36	11.26	11.17	11.21	11.18	11.18	11.24	11.36
Transportation equipment	13.79	13.19	13.82	13.84	13.93	13.91	13.71	13.63	13.82	13.86	14.05	13.79	13.87
Instruments and related products	10.46	10.26	10.37	10.37	10.39	10.40	10.35	10.43	10.42	10.53	10.57	10.74	10.68
Nondurable Goods[c]	11.20	11.02	11.04	11.11	11.16	11.16	11.14	11.12	11.21	11.27	11.29	11.37	11.48
Food and kindred products	10.78	10.83	10.86	10.92	10.86	10.83	10.78	10.74	10.94	10.64	10.61	10.73	10.65
Printing and publishing	13.80	13.35	13.39	13.45	13.62	13.73	13.75	13.79	13.84	13.99	14.05	14.21	14.28
Chemicals and allied products	13.21	12.97	12.97	13.22	13.19	13.11	12.99	12.83	12.96	13.29	13.56	13.69	13.70
Rubber and misc. plastics products	8.57	8.37	8.36	8.36	8.40	8.55	8.63	8.62	8.65	8.64	8.82	8.67	8.76
TRANSPORTATION AND PUBLIC UTILITIES	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Communication, electric, gas services	14.18	13.98	13.97	14.21	14.26	14.24	14.19	14.24	14.36	14.29	14.18	14.21	14.01
WHOLESALE TRADE	9.33	9.12	9.22	9.15	9.20	9.21	9.26	9.34	9.29	9.45	9.57	9.50	9.59
RETAIL TRADE[d]	6.36	6.28	6.24	6.33	6.29	6.35	6.31	6.36	6.29	6.36	6.41	6.50	6.56
SERVICES	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Health services	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hospitals	10.05	9.79	9.77	9.82	9.84	9.93	9.87	10.13	10.02	10.27	10.24	10.40	10.45

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Columbus area is defined as Delaware, Fairfield, Franklin, Licking, Madison, Pickaway, and Union Counties. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average earnings are computed from gross payroll before tax and other deductions. Includes pay for overtime, incentive bonuses paid regularly, holidays, vacations, and sick leave. Excludes special bonuses, retroactive pay, and payments in kind. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; primary metal industries; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; petroleum and coal products; leather and leather products. [d] Money payments only, tips not included. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus 43216 4-1-89 RS-790-4-5 (1988)

AVERAGE WEEKLY HOURS OF PRODUCTION OR NONSUPERVISORY WORKERS IN COLUMBUS MSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	41.5	41.4	41.7	41.3	41.7	41.4	41.5	41.2	40.8	41.4	41.7	41.9	41.9
Durable Goods[b]	41.5	41.4	42.1	41.3	41.8	41.3	41.6	41.1	40.7	41.6	41.7	41.6	41.7
Stone, clay, and glass products	40.6	39.9	40.4	40.8	40.7	40.4	41.0	40.4	40.1	41.1	40.6	41.6	39.9
Glass and glassware, pressed or blown	39.8	39.7	39.2	39.7	39.9	39.1	39.1	39.6	39.3	42.1	40.5	41.2	38.7
Fabricated metal products	41.2	40.8	40.8	39.8	41.2	41.3	41.8	40.8	41.1	41.2	41.3	42.2	42.0
Fabricated structural metal products	41.8	41.0	42.8	40.5	41.9	41.5	41.6	41.0	43.5	42.1	42.8	41.2	41.3
Machinery, except electrical	42.1	43.4	42.8	41.6	42.4	40.9	40.2	42.9	41.8	42.4	41.0	41.8	44.3
Electric and electronic equipment	40.7	41.6	41.0	40.7	41.1	40.8	40.9	40.9	40.0	40.4	40.4	40.1	39.9
Transportation equipment	43.0	43.1	45.6	43.6	43.9	44.0	42.6	41.3	40.9	42.3	44.4	41.8	42.3
Instruments and related products	39.2	38.6	40.4	40.6	40.3	39.2	39.8	38.8	38.9	38.8	38.8	38.2	38.5
Nondurable Goods[c]	41.5	41.4	41.0	41.3	41.4	41.4	41.2	41.2	41.2	41.0	41.8	42.6	42.3
Food and kindred products	41.5	40.4	39.9	41.3	41.5	41.3	41.5	41.7	41.7	41.7	41.6	42.7	42.7
Printing and publishing	39.7	40.2	38.9	39.2	39.3	39.6	39.4	39.7	39.6	40.0	39.6	40.5	40.6
Chemicals and allied products	42.2	42.9	42.0	42.4	42.3	41.8	41.2	40.9	41.2	41.2	42.1	43.8	44.7
Rubber and misc. plastics products	42.4	41.8	43.5	42.2	42.7	43.1	42.4	41.8	41.7	41.2	44.5	43.0	41.5
TRANSPORTATION AND PUBLIC UTILITIES	....	....	....	....	....	....	....	....	....	....	....	....	....
Communication, electric, gas services	41.2	40.7	40.4	41.0	42.1	41.6	41.3	41.7	41.9	41.6	40.9	41.2	40.6
WHOLESALE TRADE	37.5	37.7	37.4	37.2	37.5	37.3	37.0	37.4	37.1	37.8	37.8	37.7	37.7
RETAIL TRADE	28.8	28.3	28.2	28.5	28.4	28.1	28.7	29.0	29.4	29.2	28.7	28.8	29.7
SERVICES	....	....	....	....	....	....	....	....	....	....	....	....	....
Health services	....	....	....	....	....	....	....	....	....	....	....	....	....
Hospitals	34.2	34.4	34.3	34.0	34.0	34.1	34.2	34.4	34.5	34.6	34.1	33.7	33.7

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Columbus area is defined as Delaware, Fairfield, Franklin, Licking, Madison, Pickaway, and Union Counties. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average weekly hours are computed from the sum of hours worked plus hours paid for stand-by or reporting time, sick leave, holidays, and vacations. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; primary metal industries; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; petroleum and coal products; leather and leather products. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus 43216 4-1-89 RS-790-3-5 (1988)

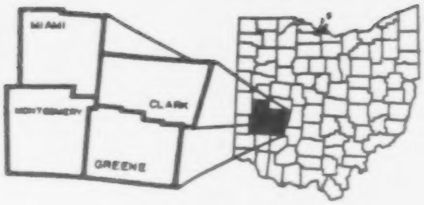
AVERAGE WEEKLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS IN COLUMBUS MSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	$480.16	$468.65	$477.47	$474.54	$482.47	$480.24	$480.16	$475.45	$471.65	$481.48	$486.22	$489.39	$492.74
Durable Goods[b]	487.63	474.86	490.47	482.38	492.40	488.17	490.05	482.93	477.41	491.30	493.73	492.13	496.23
Stone, clay, and glass products	475.83	464.04	466.62	479.81	475.38	471.06	485.03	479.95	475.59	482.93	472.18	482.98	470.02
Glass and glassware, pressed or blown.	435.01	443.05	429.24	437.49	436.11	420.72	425.02	438.37	425.23	464.78	444.69	444.96	417.57
Fabricated metal products	514.18	498.98	501.84	488.35	521.59	524.10	529.61	509.59	508.00	510.88	515.42	531.30	530.04
Fabricated structural metal products..	459.80	442.39	477.22	440.64	459.64	453.60	453.02	453.46	481.98	455.10	480.22	460.62	454.30
Machinery, except electrical	455.52	460.91	454.96	441.79	453.26	438.86	430.54	470.61	447.26	467.67	444.03	457.71	501.48
Electric and electronic equipment	456.25	458.43	453.87	454.62	464.02	463.49	460.53	456.85	448.40	451.67	451.67	450.72	453.26
Transportation equipment	592.97	568.49	630.19	603.42	611.53	612.04	584.05	562.92	565.24	586.28	623.82	576.42	586.70
Instruments and related products	410.03	396.04	418.95	421.02	418.72	407.68	411.93	404.68	405.34	408.56	410.12	410.27	411.18
Nondurable Goods[c]	464.80	456.23	452.64	458.84	462.02	462.02	458.97	458.14	461.85	462.07	471.92	484.36	485.60
Food and kindred products	447.37	437.53	433.31	451.00	450.69	447.28	447.37	447.86	456.20	443.69	441.38	458.17	454.76
Printing and publishing	547.86	536.67	520.87	527.24	535.27	543.71	541.75	547.46	548.06	559.60	556.38	575.51	579.77
Chemicals and allied products	557.46	556.41	544.74	560.53	557.94	548.00	535.19	524.75	533.95	547.55	570.88	599.62	612.39
Rubber and misc. plastics products	363.37	349.87	363.66	352.79	358.68	368.51	365.91	360.32	360.71	355.97	392.49	372.81	363.54
TRANSPORTATION AND PUBLIC UTILITIES	......	......	......	......	......	......	......	......	......	......	......	......	......
Communication, electric, gas services ..	584.22	568.99	564.39	582.61	600.35	592.38	586.05	593.81	601.68	594.46	579.96	585.45	568.81
WHOLESALE TRADE	349.88	343.82	344.83	340.38	345.00	343.53	342.62	349.32	344.66	357.21	361.75	358.15	361.54
RETAIL TRADE[d]	183.17	177.72	175.97	180.41	178.64	178.44	181.10	184.44	184.93	185.71	183.97	187.20	194.83
FINANCE, INSURANCE, AND REAL ESTATE	......	......	......	......	......	......	......	......	......	......	......	......	......
Banking	265.91	259.14	261.66	264.27	263.15	267.04	267.99	263.25	267.29	267.75	268.06	271.13	270.27
SERVICES	......	......	......	......	......	......	......	......	......	......	......	......	......
Health services	......	......	......	......	......	......	......	......	......	......	......	......	......
Hospitals	343.71	336.78	335.11	333.88	334.56	338.61	337.55	348.47	345.69	355.34	349.18	350.48	352.17

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Columbus area is defined as Delaware, Fairfield, Franklin, Licking, Madison, Pickaway, and Union Counties. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average earnings are computed from gross payroll before tax and other deductions. Includes pay for overtime, incentive bonuses paid regularly, holidays, vacations, and sick leave. Excludes special bonuses, retroactive pay, and payments in kind. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; primary metal industries; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; petroleum and coal products; leather and leather products. [d] Money payments only, tips not included. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus 43216 4-1-89 RS-790-2-5 (1988)

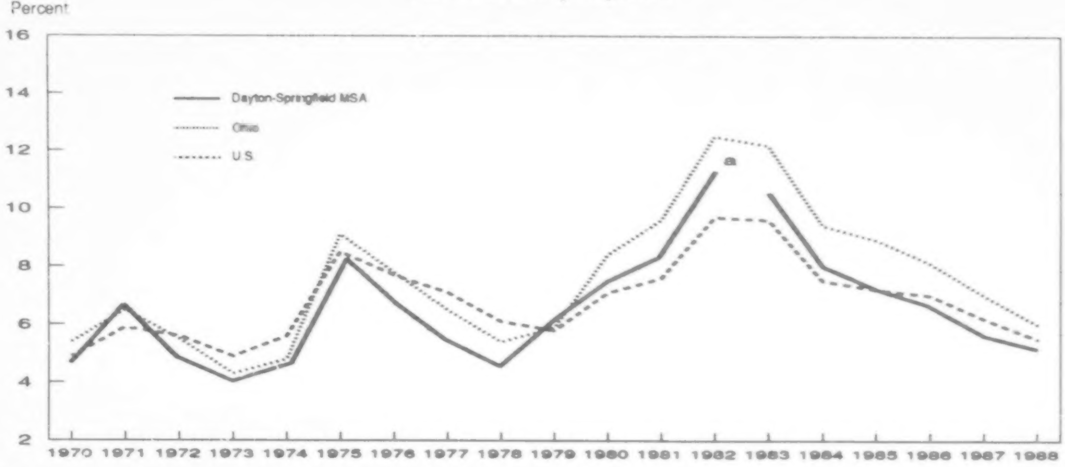
DAYTON - SPRINGFIELD
METROPOLITAN STATISTICAL AREA



The estimated annual average civilian labor force in the Dayton-Springfield metropolitan area, distributed by place of residence, increased 5,200 from 1987 to 469,000 in 1988. Total employment rose 6,900 over the year, while unemployment declined 1,800 to 24,400. The unemployment rate dropped from 5.6 percent in 1987 to 5.2 percent in 1988. (See table, page 85, top.)

Nonfarm wage and salary employment recorded a 1.6 percent increase from the 1987 level to 436,700 in 1988. Nonmanufacturing employment advanced 6,700 over the year. Noteworthy expansion occurred in services, retail trade, construction, and transportation and public utilities. Modest growth in nonelectrical machinery and printing and publishing raised manufacturing employment 200 between 1987 and 1988. Employment in transportation equipment, electric and electronic equipment, and rubber and miscellaneous plastics products declined.

Nonagricultural payroll employment in the Dayton-Springfield area continued its post-recession expansion, increasing 64,500 since 1983. Leading growth industries in nonmanufacturing were services, retail trade, and construction. Manufacturing recovered 33.4 percent of jobs lost during the recessionary period, but remained 18,000 below the 1979 level. Transportation equipment and electric and electronic equipment provided economic growth during the 1983-1988 period, although the over-the-year employment level declined. Recovery continued in printing and publishing. (See table, page 85, bottom.)


Dayton–Springfield MSA, Ohio and U.S. Unemployment Rates
Not Seasonally Adjusted

[a]Metropolitan area definition changed effective with data for 1983. Prior data are not strictly comparable.

Dayton–Springfield MSA Civilian Labor Force and Nonagricultural Wage and Salary Employment[a] (Employed and Unemployed in Thousands)

Civilian Labor Force							Nonagricultural Wage & Salary Employment		
	Employment							Manufacturing	
		Unemployment							Nonmfg.
			Unemployment Rate[b]						
			MSA	Ohio	U.S.				
353.5	336.2	17.3	4.9	5.5	5.6	1972	366.8	129.8	237.0
358.0	343.5	14.5	4.1	4.3	4.9	1973	378.3	133.7	244.6
359.5	342.5	17.0	4.7	4.8	5.6	1974	376.6	128.1	248.5
357.6	327.7	29.9	8.4	9.1	8.5	1975	360.1	112.5	247.5
360.5	336.3	24.2	6.7	7.8	7.7	1976	370.7	116.3	254.4
368.6	348.3	20.3	5.5	6.5	7.1	1977	383.8	121.8	262.0
381.1	363.7	17.3	4.6	5.4	6.1	1978	401.1	125.0	276.2
392.2	367.9	24.2	6.2	5.9	5.8	1979	408.8	122.5	286.3
390.2	361.0	29.2	7.5	8.4	7.1	1980	397.1	110.9	286.2
390.8	357.9	32.8	8.4	9.6	7.6	1981	393.2	109.9	283.3
391.8	347.1	44.7	11.4	12.5	9.7	1982	374.3	97.3	277.0
438.5[c]	391.9[c]	46.6[c]	10.6[c]	12.2	9.6	1983	372.3	95.5	276.8
440.1	404.8	35.2	8.0	9.4	7.5	1984	392.7	103.7	289.0
450.4	418.1	32.4	7.2	8.9	7.2	1985	408.9	106.3	302.5
460.5	430.1	30.3	6.6	8.1	7.0	1986	419.4	105.7	313.7
463.8	437.7	26.2	5.6	7.0	6.2	1987	429.8	104.3	325.5
469.0	444.6	24.4	5.2	6.0	5.5	1988	436.7	104.5	332.2

[a] Civilian labor force estimates are based on place of residence.
Nonagricultural wage and salary employment estimates are based on place of work.

[b] Unemployment as percent of civilian labor force.

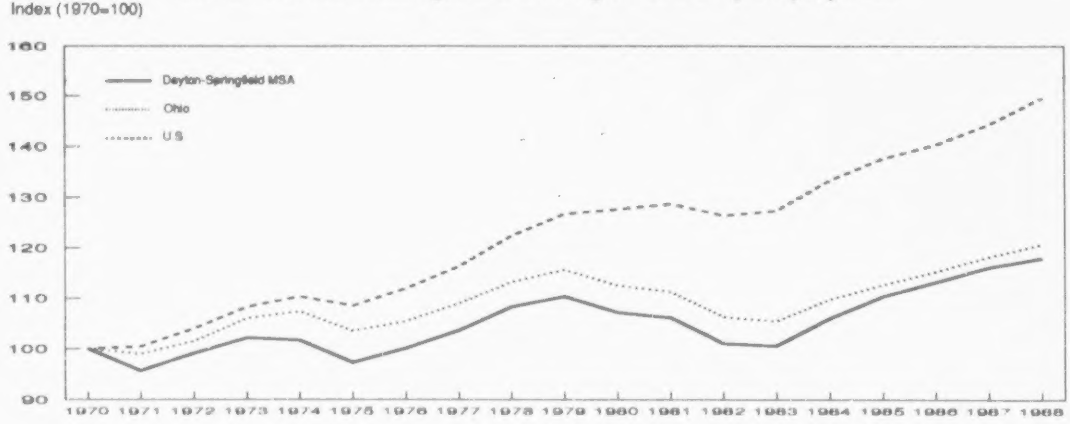
[c] Data not comparable to previous years due to change in metropolitan area definition.

Nonagricultural Wage and Salary Employment in Selected Industries in the Dayton–Springfield Metropolitan Statistical Area Annual Average Data for 1979, 1983, and 1988

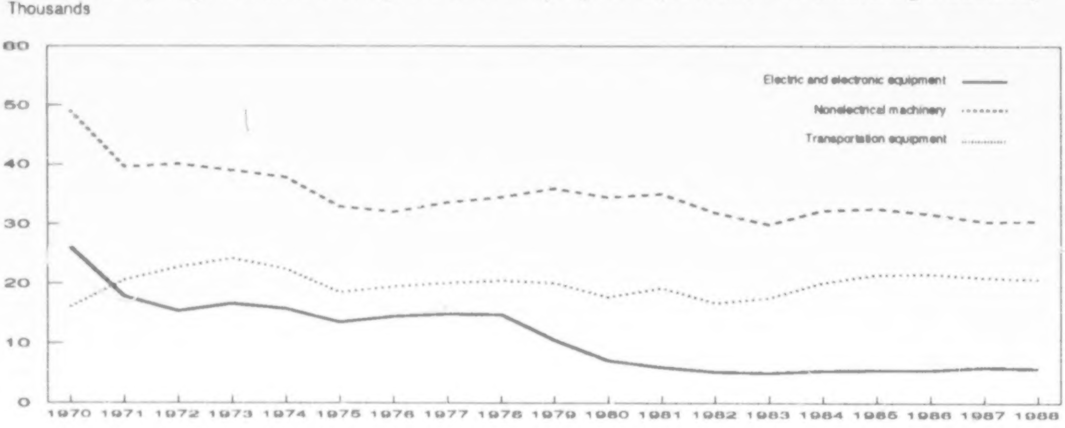
Industry	Employment (in thousands)			Employment Changes		Percent Recovery	
	1979	1983	1988	1979 - 1983	1983 - 1988	MSA	Ohio
TOTAL	408.8	372.3	436.7	-36.5	64.5	176.7	150.5
Manufacturing	122.5	95.5	104.5	-27.0	9.0	33.4	11.7
Durable Goods	86.2	68.7	75.1	-17.5	6.3	36.2	7.8
Machinery, Except Electrical	35.9	30.0	30.6	-5.9	.6	9.7	6.3
Electric and Electronic Equipment	10.5	5.0	5.8	-5.5	.8	14.8	–
Electrical Industrial Apparatus	4.7	2.9	3.3	-1.8	.4	21.4	–
Transportation Equipment	20.1	17.7	20.8	-2.4	3.1	127.1	28.8
Nondurable Goods	36.3	26.8	29.5	-9.5	2.7	28.1	29.0
Printing and Publishing	10.2	7.7	8.9	-2.6	1.3	48.9	181.3
Rubber and Misc. Plastics Products	12.2	7.7	7.9	-4.5	.2	3.8	33.8
Construction	15.8	10.6	17.8	-5.2	7.2	137.7	101.3
Transportation and Public Utilities	16.3	13.9	16.8	-2.4	2.9	121.6	38.7
Wholesale Trade	16.6	17.5	19.7	.9	2.2	+	308.7
Retail Trade	68.4	63.1	79.8	-5.3	16.7	316.2	527.1
Finance, Insurance, and Real Estate	15.6	15.8	18.1	.2	2.2	+	+
Services	79.5	84.7	106.8	5.2	22.1	+	+
Government	73.6	70.8	72.9	-2.8	2.1	75.7	227.4

+ No Downturn, 1979 – 1983.
– No Upturn, 1983 – 1988.

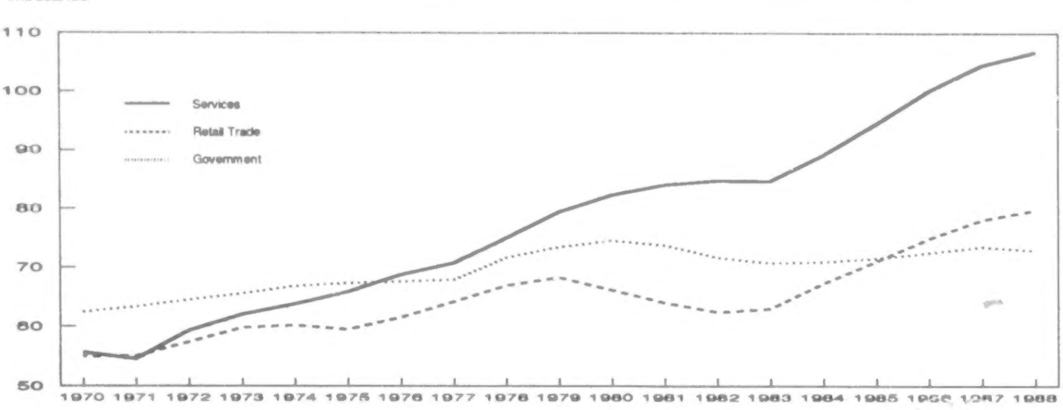
Indexes of Total Nonagricultural Wage and Salary Employment



Dayton–Springfield MSA Nonagricultural Employment (Selected Manufacturing Industries)



Dayton–Springfield MSA Nonagricultural Employment (Selected Nonmanufacturing Industries)



NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN DAYTON-SPRINGFIELD MSA, 1988[a]
(in thousands)

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
TOTAL	436.7	426.5	426.0	429.8	433.4	436.3	437.8	432.3	432.6	442.8	445.0	450.3	448.2
MANUFACTURING	104.5	103.4	103.0	103.9	104.4	104.6	104.9	104.8	104.3	105.4	104.8	105.3	105.5
Durable Goods[b]	75.1	73.9	73.7	74.4	75.0	75.1	75.5	75.4	74.7	75.7	75.4	75.8	76.1
Fabricated metal products	8.4	8.4	8.3	8.3	8.4	8.4	8.5	8.5	8.5	8.5	8.3	8.3	8.4
Machinery, except electrical	30.6	30.1	30.0	30.2	30.5	30.4	30.7	30.7	30.4	30.7	30.8	31.1	31.2
Metalworking machinery	6.6	6.7	6.6	6.7	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.7	6.7
General industrial machinery	2.8	2.7	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Electric and electronic equipment	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.8	5.7	5.7	5.7	5.8	5.8
Electrical industrial apparatus	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.3	3.3
Transportation equipment	20.8	20.6	20.4	20.7	20.9	20.7	20.9	20.8	20.4	21.1	20.8	20.8	21.0
Nondurable Goods[c]	29.5	29.5	29.3	29.5	29.4	29.5	29.4	29.4	29.6	29.8	29.4	29.5	29.3
Food and kindred products	2.9	2.9	2.8	2.9	2.8	2.8	2.8	2.9	3.0	3.1	2.9	3.0	3.1
Paper and allied products	5.9	6.0	5.9	5.9	5.9	5.9	5.9	5.9	6.0	5.9	5.9	5.9	5.9
Printing and publishing	8.9	9.0	8.9	9.0	9.0	9.0	9.0	9.0	8.9	9.0	8.9	8.9	8.9
Rubber and misc. plastics products	7.9	8.0	7.9	7.8	7.9	7.9	7.8	7.8	7.8	7.9	7.9	7.9	7.9
NONMANUFACTURING[d]	332.2	323.2	323.1	325.9	329.0	331.7	332.9	327.4	328.3	337.4	340.1	345.0	342.8
CONSTRUCTION	17.8	14.8	14.2	15.2	16.5	17.6	18.6	19.3	19.7	19.7	19.9	19.4	18.8
TRANSPORTATION AND PUBLIC UTILITIES	16.8	16.3	16.4	16.4	16.5	16.7	16.9	16.9	17.0	17.1	17.1	17.1	17.3
Communication, electric, gas services	5.7	5.7	5.7	5.7	5.7	5.8	5.8	5.8	5.8	5.7	5.6	5.5	5.5
WHOLESALE TRADE	19.7	19.1	19.1	19.3	19.4	19.5	19.7	19.8	19.9	19.9	20.1	20.1	20.2
Wholesale trade-durable goods	13.6	13.2	13.3	13.4	13.4	13.5	13.6	13.7	13.7	13.7	13.8	13.8	13.8
RETAIL TRADE	79.8	77.3	76.4	77.0	78.1	79.6	80.2	80.0	80.5	80.7	81.2	82.5	84.0
General merchandise stores	11.8	12.0	11.4	11.4	11.4	11.6	11.6	11.6	11.6	11.7	11.9	12.5	13.2

See footnotes at end of table.

NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN DAYTON-SPRINGFIELD MSA, 1988[a] (continued)
(in thousands)

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
FINANCE, INSURANCE, AND REAL ESTATE	18.1	17.7	17.7	17.8	17.9	18.0	18.3	18.3	18.4	18.2	18.2	18.2	18.2
Banking	4.2	4.1	4.1	4.1	4.1	4.1	4.2	4.2	4.2	4.2	4.1	4.1	4.2
Credit agencies other than banks	4.8	4.9	4.8	4.8	4.9	4.8	4.9	4.8	4.8	4.8	4.7	4.7	4.7
Insurance carriers	3.0	3.0	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
SERVICES	106.8	103.6	105.0	105.3	106.1	105.3	106.4	106.0	106.7	109.0	109.5	109.4	109.2
Business services	25.7	24.4	24.7	24.7	25.0	25.4	25.7	26.0	26.2	26.3	26.5	26.6	26.6
Health services	36.8	36.2	36.2	36.3	36.3	36.4	36.6	36.9	37.1	37.3	37.3	37.2	37.3
Hospitals	19.1	18.9	18.9	19.0	18.9	18.9	19.0	19.2	19.2	19.4	19.3	19.2	19.3
Educational services	8.0	8.4	9.0	9.0	8.6	7.0	6.7	5.7	5.7	8.6	9.1	9.3	9.0
GOVERNMENT	72.9	74.1	74.0	74.6	74.0	74.5	72.5	66.6	65.7	72.3	73.8	77.8	74.8
Federal government	27.4	27.6	27.5	27.6	27.3	27.3	27.3	27.3	27.2	27.2	27.2	27.4	27.6
State government	7.0	7.3	7.0	7.3	7.3	7.3	7.3	6.6	6.5	6.4	6.7	7.2	7.3
State government education	4.1	4.4	4.1	4.4	4.4	4.4	4.4	3.6	3.5	3.4	3.8	4.3	4.4
State government, except education ...	2.9	2.9	2.9	2.9	2.9	2.9	3.0	3.0	3.0	2.9	2.9	2.9	2.9
Local government	38.5	39.2	39.4	39.7	39.4	39.9	37.8	32.7	32.0	38.7	39.9	43.3	39.9
Local government education	23.4	24.8	25.0	25.2	24.8	25.2	22.7	17.4	16.9	23.7	24.9	25.2	25.0
Local government, except education ...	15.1	14.4	14.4	14.5	14.6	14.8	15.2	15.3	15.1	15.0	15.0	18.1	15.0

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Dayton-Springfield area is defined as Clark, Greene, Miami, and Montgomery Counties. Based on March 1988 benchmark. Includes full- and part-time wage and salaried workers employed during pay periods which include the 12th of the month. Excludes self-employed, domestics, and armed forces. Subtotals may not add to totals, because of rounding or exclusion of minor groups. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; primary metal industries; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; chemicals and allied products; petroleum and coal products; leather and leather products. [d] Includes mining. [e] Depressed due to labor-management disputes.

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NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN DAYTON-SPRINGFIELD MSA, 1987[a]

(in thousands)

Industry	1987 Average	January	February	March	April	May	June	July	August	September	October	November	December
TOTAL	429.8	419.2	419.5	421.9	426.5	429.4	430.8	426.1	427.5	435.5	438.7	440.9	441.9
MANUFACTURING	104.3	103.9	103.0	103.3	103.9	104.1	104.3	104.0	104.8	105.3	105.4	105.1	105.1
Durable Goods[b]	75.1	75.1	74.4	74.7	75.0	75.1	75.4	74.8	75.1	75.6	75.5	75.3	75.1
Fabricated metal products	8.4	8.5	8.4	8.4	8.4	8.4	8.4	8.2	8.3	8.4	8.5	8.5	8.5
Machinery, except electrical	30.4	30.9	30.3	30.2	30.2	30.4	30.6	30.5	30.5	30.6	30.5	30.2	30.3
Metalworking machinery	6.6	6.8	6.7	6.6	6.6	6.6	6.5	6.5	6.5	6.6	6.6	6.6	6.6
General industrial machinery	2.6	2.6	2.3	2.3	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.7	2.7
Electric and electronic equipment	6.0	5.8	5.8	5.9	6.0	6.0	6.0	5.9	6.1	6.0	6.2	6.2	6.3
Electrical industrial apparatus	3.6	3.4	3.5	3.6	3.6	3.6	3.6	3.5	3.6	3.5	3.6	3.6	3.6
Transportation equipment	21.1	21.1	21.0	21.1	21.1	21.1	21.0	21.0	20.9	21.4	21.1	21.2	20.9
Nondurable Goods[c]	29.2	28.7	28.6	28.6	28.9	29.0	28.9	29.2	29.7	29.7	29.9	29.7	30.0
Food and kindred products	2.9	2.7	2.7	2.8	2.8	2.8	2.9	3.0	3.0	3.1	3.1	2.9	3.0
Paper and allied products	5.9	5.6	5.7	5.6	5.8	5.8	5.9	5.9	6.0	6.0	6.0	6.0	6.0
Printing and publishing	8.7	8.5	8.4	8.5	8.6	8.4	8.4	8.7	8.8	8.8	8.9	9.0	9.1
Rubber and misc. plastics products	8.0	8.2	8.2	8.0	8.1	8.1	8.0	7.8	8.0	8.0	8.0	8.0	8.1
NONMANUFACTURING[d]	325.5	315.3	316.5	318.6	322.6	325.3	326.5	322.2	322.7	330.2	333.3	335.8	336.8
CONSTRUCTION	16.4	14.0	13.6	14.1	15.1	16.2	17.1	18.0	18.1	17.9	18.2	17.8	17.3
TRANSPORTATION AND PUBLIC UTILITIES	15.8	15.0	15.1	15.2	15.3	15.5	15.7	16.1	16.0	16.2	16.4	16.4	16.6
Communication, electric, gas services	5.7	5.7	5.7	5.7	5.6	5.6	5.6	5.8	5.7	5.7	5.7	5.7	5.7
WHOLESALE TRADE	18.8	18.2	18.1	18.2	18.5	18.7	18.8	18.9	18.9	19.0	19.3	19.4	19.5
Wholesale trade-durable goods	12.7	12.0	12.0	12.0	12.3	12.5	12.6	12.8	12.9	12.9	13.1	13.3	13.4
RETAIL TRADE	78.1	76.0	75.2	75.7	76.8	78.3	78.6	77.5	78.2	78.3	79.1	80.7	82.5
General merchandise stores	12.0	12.2	11.8	11.6	11.7	11.9	11.8	11.6	11.7	11.8	11.9	12.6	13.3

See footnotes at end of table.

NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN DAYTON-SPRINGFIELD MSA, 1987[a] (continued)
(in thousands)

Industry	1987 Average	January	February	March	April	May	June	July	August	September	October	November	December
FINANCE, INSURANCE, AND REAL ESTATE	17.9	17.3	17.4	17.5	17.6	17.9	18.3	18.3	18.4	18.3	18.1	18.0	18.1
Banking	4.3	4.4	4.3	4.4	4.2	4.2	4.3	4.3	4.3	4.3	4.2	4.2	4.3
Credit agencies other than banks	4.7	4.5	4.5	4.5	4.7	4.7	4.7	4.8	4.8	4.7	4.7	4.7	4.7
Insurance carriers	3.0	3.0	3.0	3.0	3.0	3.0	3.1	3.0	3.0	3.0	3.0	3.0	3.0
SERVICES	104.5	100.5	102.0	102.3	103.7	103.0	104.2	103.8	104.4	106.8	107.8	108.1	107.4
Business services	25.6	24.1	24.5	24.3	24.7	25.2	25.6	25.7	25.9	26.3	26.7	27.0	26.8
Health services	35.9	35.1	35.2	35.2	35.5	35.5	35.7	36.3	36.2	36.4	36.5	36.5	36.8
Hospitals	18.7	18.4	18.5	18.5	18.5	18.6	18.6	18.9	18.9	18.9	18.8	18.8	18.9
Educational services	7.5	7.7	8.3	8.4	8.2	6.6	6.2	5.6	5.5	7.8	8.6	8.9	8.2
GOVERNMENT	73.5	74.0	74.8	75.1	75.0	75.3	73.4	69.1	68.3	73.1	73.9	75.1	75.1
Federal government	27.9	27.6	27.6	27.7	27.7	27.7	28.0	28.4	28.3	28.3	27.8	27.8	27.9
State government	7.0	6.9	7.1	7.2	7.4	7.4	7.5	7.2	6.4	6.3	6.4	7.3	7.3
State government education	4.2	4.1	4.4	4.4	4.5	4.5	4.5	4.3	3.4	3.4	3.6	4.4	4.5
State government, except education ...	2.9	2.8	2.8	2.8	2.8	2.8	2.9	3.0	3.0	2.9	2.9	2.9	2.9
Local government	38.6	39.5	40.0	40.2	40.0	40.2	37.9	33.5	33.6	38.5	39.6	39.9	39.9
Local government education	23.8	25.1	25.7	25.7	25.4	25.4	22.7	18.2	18.4	23.7	25.0	25.4	25.4
Local government, except education ...	14.7	14.3	14.3	14.5	14.6	14.8	15.3	15.3	15.2	14.8	14.6	14.5	14.5

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Dayton-Springfield area is defined as Clark, Greene, Miami, and Montgomery Counties. Based on March 1988 benchmark. Includes full- and part-time wage and salaried workers employed during pay periods which include the 12th of the month. Excludes self-employed, domestics, and armed forces. Subtotals may not add to totals, because of rounding or exclusion of minor groups. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; primary metal industries; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; chemicals and allied products; petroleum and coal products; leather and leather products. [d] Includes mining. [e] Depressed due to labor-management disputes.

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AVERAGE HOURLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS IN DAYTON-SPRINGFIELD MSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	$12.59	$12.02	$12.19	$12.48	$12.62	$12.61	$12.71	$12.39	$12.38	$12.67	$12.95	$13.02	$12.95
Durable Goods[b]	12.76	12.17	12.36	12.71	12.79	12.74	12.86	12.52	12.51	12.80	13.16	13.22	13.11
Fabricated metal products	9.39	9.31	9.28	9.41	9.34	9.38	9.46	9.33	9.33	9.36	9.40	9.48	9.60
Machinery, except electrical	13.29	12.87	12.95	13.24	13.35	13.42	13.50	13.15	13.07	13.31	13.55	13.52	13.41
Metalworking machinery	12.24	12.17	12.20	12.13	12.06	12.09	12.21	12.06	12.23	12.33	12.40	12.44	12.56
General industrial machinery	11.00	10.62	10.67	10.67	10.68	10.84	10.60	11.00	11.04	11.15	11.08	11.60	11.85
Electric and electronic equipment	10.10	9.87	9.87	9.99	10.14	10.28	10.25	10.15	10.04	10.13	10.14	10.20	10.20
Electrical industrial apparatus	11.44	11.11	10.98	11.28	11.49	11.63	11.55	11.42	11.35	11.50	11.48	11.64	11.93
Transportation equipment	15.78	14.80	15.24	15.60	15.83	15.57	15.79	15.31	15.55	15.86	16.50	16.60	16.40
Nondurable Goods[c]	12.10	11.61	11.71	11.80	12.11	12.24	12.27	12.02	11.97	12.29	12.28	12.41	12.45
Food and kindred products	8.64	8.44	8.67	8.56	8.61	8.55	8.39	8.50	8.57	8.52	8.69	8.90	9.09
Paper and allied products	11.19	11.09	11.03	11.15	11.20	11.33	11.53	11.21	10.98	11.18	11.00	11.16	11.39
Printing and publishing	11.27	10.86	11.00	11.07	11.16	11.21	11.35	11.31	11.42	11.60	11.41	11.38	11.49
Rubber and misc. plastics products	15.81	14.77	14.89	15.02	15.69	15.98	16.00	15.57	15.77	16.39	16.44	16.58	16.53
TRANSPORTATION AND PUBLIC UTILITIES	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Communication, electric, gas services ..	13.60	13.45	13.47	13.92	13.35	13.39	13.41	13.53	13.69	13.68	13.68	13.93	13.71
WHOLESALE TRADE	10.26	10.30	10.46	10.37	10.36	10.31	10.21	10.14	10.21	10.25	10.19	10.14	10.15
RETAIL TRADE[d]	5.77	5.80	5.70	5.79	5.80	5.73	5.72	5.75	5.71	5.77	5.75	5.82	5.91
SERVICES	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Health services	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hospitals	10.59	10.72	10.66	10.64	10.64	10.57	10.67	10.63	10.59	10.53	10.48	10.43	10.51

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Dayton-Springfield area is defined as Clark, Greene, Miami, and Montgomery Counties. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average earnings are computed from gross payroll before tax and other deductions. Includes pay for overtime, incentive bonuses paid regularly, holidays, vacations, and sick leave. Excludes special bonuses, retroactive pay, and payments in kind. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; primary metal industries; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; chemicals and allied products; petroleum and coal products; leather and leather products. [d] Money payments only, tips not included. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

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AVERAGE WEEKLY HOURS OF PRODUCTION OR NONSUPERVISORY WORKERS IN DAYTON-SPRINGFIELD MSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	43.4	42.2	42.4	43.2	43.3	43.7	44.0	42.4	42.2	43.6	44.3	44.6	44.4
Durable Goods[b]	43.6	42.2	42.4	43.4	43.3	43.8	44.3	42.6	42.5	43.8	44.8	45.2	44.5
Fabricated metal products	41.7	43.3	42.6	42.1	41.4	41.9	42.1	41.4	41.1	40.6	39.8	41.3	43.1
Machinery, except electrical	44.4	43.0	42.8	43.8	44.0	44.6	45.1	43.3	43.6	45.0	45.9	46.0	45.3
Metalworking machinery	46.1	45.3	45.9	45.6	44.3	44.2	46.2	45.3	46.7	47.5	47.5	47.2	48.0
General industrial machinery	43.6	41.1	41.2	42.5	42.3	44.1	42.7	44.7	44.1	45.4	43.2	44.3	47.6
Electric and electronic equipment	44.7	46.0	44.5	44.6	44.3	44.0	44.0	43.6	44.3	44.6	45.2	46.0	45.8
Electrical industrial apparatus	47.1	49.2	46.3	45.7	45.5	46.0	46.9	45.4	46.2	47.1	48.2	49.5	50.2
Transportation equipment	44.2	41.1	42.4	44.4	44.2	44.4	45.4	42.8	42.1	44.1	46.8	47.3	45.6
Nondurable Goods[c]	42.8	42.1	42.6	42.7	43.1	43.4	43.1	41.9	41.4	43.1	42.9	42.8	44.0
Food and kindred products	41.0	40.8	40.5	39.3	37.9	40.8	40.4	42.0	42.1	41.7	41.3	42.3	42.5
Paper and allied products	45.4	46.3	46.8	46.2	46.4	46.5	46.9	43.7	41.8	45.6	43.5	44.2	47.6
Printing and publishing	39.9	38.8	38.7	40.0	40.7	40.3	40.2	39.4	40.3	39.8	41.5	39.4	40.1
Rubber and misc. plastics products	43.4	41.4	43.1	42.9	44.3	44.6	43.5	41.7	42.0	43.9	44.6	44.5	44.7
TRANSPORTATION AND PUBLIC UTILITIES	....	....	....	....	....	....	....	....	....	....	....	....	....
Communication, electric, gas services	40.3	40.0	39.7	41.1	39.7	40.0	40.1	40.7	40.5	40.5	40.4	40.6	40.0
WHOLESALE TRADE	39.9	39.8	40.0	40.0	39.4	39.6	40.3	39.9	39.7	39.6	39.8	39.9	40.2
RETAIL TRADE	28.2	26.9	27.3	27.7	27.9	28.2	28.5	28.7	28.6	28.3	28.5	28.1	29.4
SERVICES	....	....	....	....	....	....	....	....	....	....	....	....	....
Health services	....	....	....	....	....	....	....	....	....	....	....	....	....
Hospitals	34.3	34.7	34.8	34.5	34.7	34.6	34.4	34.2	34.3	33.8	33.8	34.2	34.2

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Dayton-Springfield area is defined as Clark, Greene, Miami, and Montgomery Counties. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average weekly hours are computed from the sum of hours worked plus hours paid for stand-by or reporting time, sick leave, holidays, and vacations. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; primary metal industries; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; chemicals and allied products; petroleum and coal products; leather and leather products. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

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AVERAGE WEEKLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS IN DAYTON-SPRINGFIELD MSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November[f]	December
MANUFACTURING	$546.41	$507.24	$516.86	$539.14	$546.45	$551.06	$559.24	$525.34	$522.44	$552.41	$573.69	$580.69	$574.98
Durable Goods[b]	556.34	513.57	524.06	551.61	553.81	558.01	569.70	533.35	531.68	560.64	589.57	597.54	583.40
Fabricated metal products	391.56	403.12	395.33	396.16	386.68	393.02	398.27	386.26	383.46	380.02	374.12	391.52	413.76
Machinery, except electrical	590.08	553.41	554.26	579.91	587.40	598.53	608.85	569.40	569.85	598.95	621.95	621.92	607.47
Metalworking machinery	564.26	551.30	559.98	553.13	534.26	534.38	564.10	546.32	571.14	585.68	589.00	587.17	602.88
General industrial machinery	479.60	436.48	439.60	453.48	451.76	478.04	452.62	491.70	486.86	506.21	478.66	513.88	564.06
Electric and electronic equipment	451.47	454.02	439.22	445.55	449.20	452.32	451.00	442.54	444.77	451.80	458.33	469.20	467.16
Electrical industrial apparatus	538.82	546.61	508.37	515.50	522.80	534.98	541.70	518.47	524.37	541.65	553.34	576.18	598.89
Transportation equipment	697.48	608.28	646.18	692.64	699.69	691.31	716.87	655.27	654.66	699.43	772.20	785.18	747.84
Nondurable Goods[c]	517.88	488.78	498.85	503.86	521.94	531.22	528.84	503.64	495.56	529.70	526.81	531.15	547.80
Food and kindred products	354.24	344.35	351.14	336.41	326.32	348.84	338.96	357.00	360.80	355.28	358.90	376.47	386.33
Paper and allied products	508.03	513.47	516.20	515.13	519.68	526.85	540.76	489.88	458.96	509.81	478.50	493.27	542.16
Printing and publishing	449.67	421.37	425.70	442.80	454.21	451.76	456.27	445.61	460.23	461.68	473.52	448.37	460.75
Rubber and misc. plastics products	686.15	611.48	641.76	644.36	695.07	712.71	696.00	649.27	662.34	719.52	733.22	737.81	738.89
TRANSPORTATION AND PUBLIC UTILITIES	......	......	......	......	......	......	......	......	......	......	......	......	......
Communication, electric, gas services	548.08	538.00	534.76	572.11	530.00	535.60	537.74	550.67	554.45	554.04	552.67	565.56	548.40
WHOLESALE TRADE	409.37	409.94	418.40	414.80	408.18	408.28	411.46	404.59	405.34	405.90	405.56	404.59	408.03
RETAIL TRADE[d]	162.71	156.02	155.61	160.38	161.82	161.59	163.02	165.03	163.31	163.29	163.88	163.54	173.75
SERVICES	......	......	......	......	......	......	......	......	......	......	......	......	......
Health services	......	......	......	......	......	......	......	......	......	......	......	......	......
Hospitals	363.24	371.98	370.97	367.08	369.21	365.72	367.05	363.55	363.24	355.91	354.22	356.71	359.44

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Dayton-Springfield area is defined as Clark, Greene, Miami, and Montgomery Counties. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average earnings are computed from gross payroll before tax and other deductions. Includes pay for overtime, incentive bonuses paid regularly, holidays, vacations, and sick leave. Excludes special bonuses, retroactive pay, and payments in kind. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; primary metal industries; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; chemicals and allied products; petroleum and coal products; leather and leather products. [d] Money payments only, tips not included. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

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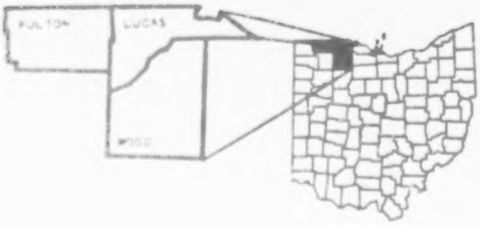
TOLEDO
METROPOLITAN STATISTICAL AREA

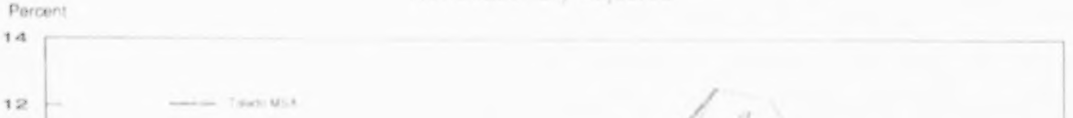


Based on place of residence, the estimated average annual civilian labor force in the Toledo metropolitan area was 310,300 in 1988, increasing 2,700 from the 1987 level. Total employment, at 292,100, gained 7,000, while unemployment declined 4,300 to 18,200 in 1988. The unemployment rate dropped 1.4 points, from 7.3 percent in 1987 to 5.9 percent in 1988. (See table, page 95, top.)

Nonagricultural payroll employment advanced 6,900 to 284,900 in 1988, a 2.5 percent increase from 1987. Expansion in the nonmanufacturing sector accounted for most of the gain. Primary growth industries were services (+2,800) and retail trade (+1,800). Manufacturing employment rose 300 over the year with improvements in rubber and miscellaneous plastics products, primary metal industries, and food and kindred products. Employment in electric and electronic equipment, transportation equipment, stone, clay, and glass products, and nonelectrical machinery declined.

Nonfarm wage and salary employment in the Toledo area advanced 39,700 since the 1979-1983 economic downturn. Expansion in the nonmanufacturing sector contributed 92.7 percent of the gain. Leading growth industries were services (+15,300) and retail trade (+11,100). Manufacturing has recovered 16.5 percent of jobs lost during the recessionary period, due to scattered increases in nondurable- and durable-goods industries. Although employment in transportation equipment has declined the last three years, the industry remains 1,500 above the 1983 level. Employment in stone, clay, and glass products continued its downward trend. (See table, page 95, bottom.)

Toledo MSA, Ohio and U.S. Unemployment Rates
Not Seasonally Adjusted



[a]Metropolitan area definition changed effective with data for 1983. Prior data are not strictly comparable.

Toledo MSA Civilian Labor Force and Nonagricultural Wage and Salary Employment[a] (Employed and Unemployed in Thousands)

Civilian Labor Force	Employment	Unemployment	Unemployment Rate[b]				Nonagricultural Wage & Salary Employment	Manufacturing	
			MSA	Ohio	U.S.				Nonmfg.
329.4	311.3	18.1	5.5	5.5	5.6	1972	241.7	77.9	163.8
339.8	324.2	15.6	4.6	4.3	4.9	1973	252.2	82.0	170.2
343.8	324.2	19.7	5.7	4.8	5.6	1974	251.6	78.8	172.7
344.8	310.2	34.6	10.0	9.1	8.5	1975	241.0	70.9	170.1
347.8	319.4	28.4	8.2	7.8	7.7	1976	248.3	74.5	173.9
355.0	329.4	25.6	7.2	6.5	7.1	1977	256.3	77.2	179.1
362.1	339.7	22.4	6.2	5.4	6.1	1978	264.7	79.4	185.3
368.2	341.7	26.4	7.2	5.9	5.8	1979	268.2	77.4	190.8
368.2	329.8	38.4	10.4	8.4	7.1	1980	257.0	66.4	190.6
367.4	328.0	39.4	10.7	9.6	7.6	1981	254.2	65.8	188.4
369.4	323.0	46.4	12.6	12.5	9.7	1982	244.4	60.2	184.2
289.2[c]	256.1[c]	33.1[c]	11.4[c]	12.2	9.6	1983	245.3	59.6	185.7
293.5	267.3	26.2	8.9	9.4	7.5	1984	257.0	64.8	192.2
296.5	272.3	24.3	8.2	8.9	7.2	1985	264.5	65.7	198.8
307.1	281.2	25.8	8.4	8.1	7.0	1986	272.0	63.4	208.6
307.6	285.1	22.5	7.3	7.0	6.2	1987	278.0	62.2	215.9
310.3	292.1	18.2	5.9	6.0	5.5	1988	284.9	62.5	222.4

[a] Civilian labor force estimates are based on place of residence.
Nonagricultural wage and salary employment estimates are based on place of work.

[b] Unemployment as percent of civilian labor force.

[c] Data not comparable to previous years due to change in metropolitan area definition.

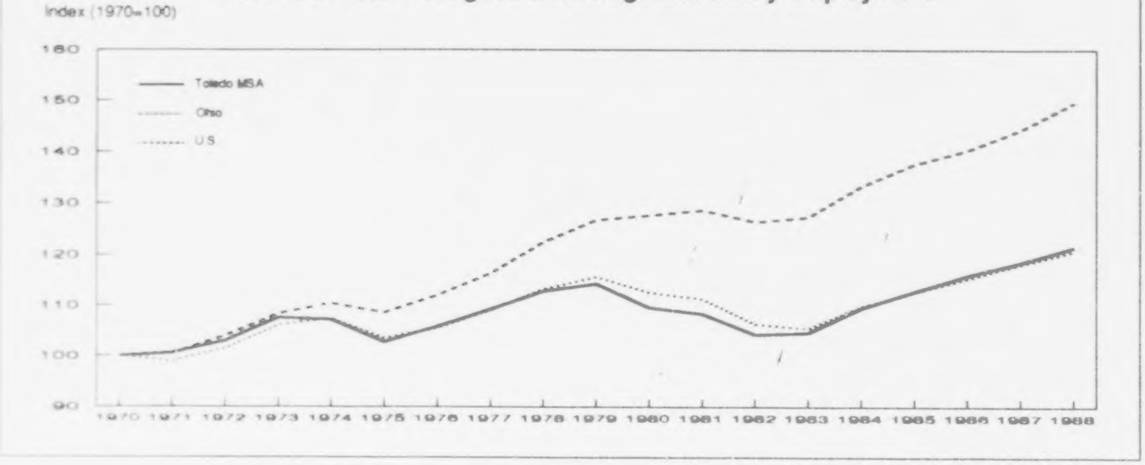
Nonagricultural Wage and Salary Employment in Selected Industries in the Toledo Metropolitan Statistical Area Annual Average Data for 1979, 1983, and 1988

Industry	Employment (In thousands)			Employment Changes		Percent Recovery	
	1979	1983	1988	1979 - 1983	1983 - 1988	MSA	Ohio
TOTAL	268.2	245.3	284.9	-22.9	39.7	173.0	150.5
Manufacturing	77.4	59.6	62.5	-17.9	2.9	16.5	11.7
Durable Goods	61.5	46.2	47.4	-15.3	1.2	7.8	7.8
Stone, Clay, and Glass Products	13.8	10.1	7.7	-3.7	-2.4	–	–
Transportation Equipment	17.7	14.3	15.8	-3.4	1.5	43.0	28.8
Motor Vehicles and Equipment	16.3	13.1	14.9	-3.2	1.8	55.0	23.9
Nondurable Goods	16.0	13.4	15.1	-2.6	1.8	67.2	29.0
Construction	10.3	7.3	10.6	-3.0	3.2	108.3	101.3
Transportation and Public Utilities	17.7	13.8	13.1	-3.8	-.7	–	38.7
Wholesale Trade	14.1	13.9	14.9	-.3	1.0	383.1	308.7
Retail Trade	47.1	44.6	55.7	-2.5	11.1	445.3	527.1
Finance, Insurance, and Real Estate	9.3	9.5	12.3	.1	2.9	+	+
Services	53.0	57.8	73.1	4.8	15.3	+	+
Government	39.0	38.6	42.5	-.4	3.9	969.8	227.4

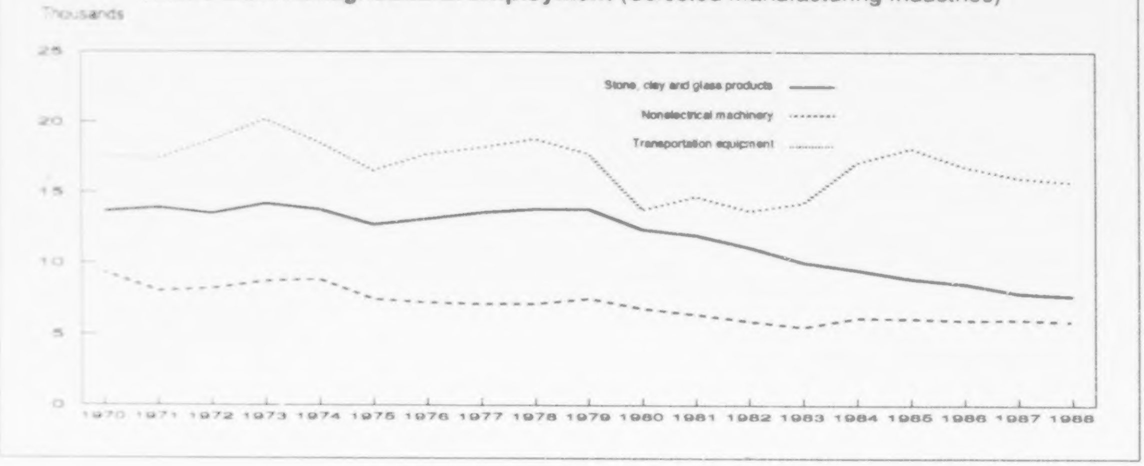
+ No Downturn, 1979 – 1983.

– No Upturn, 1983 – 1988.

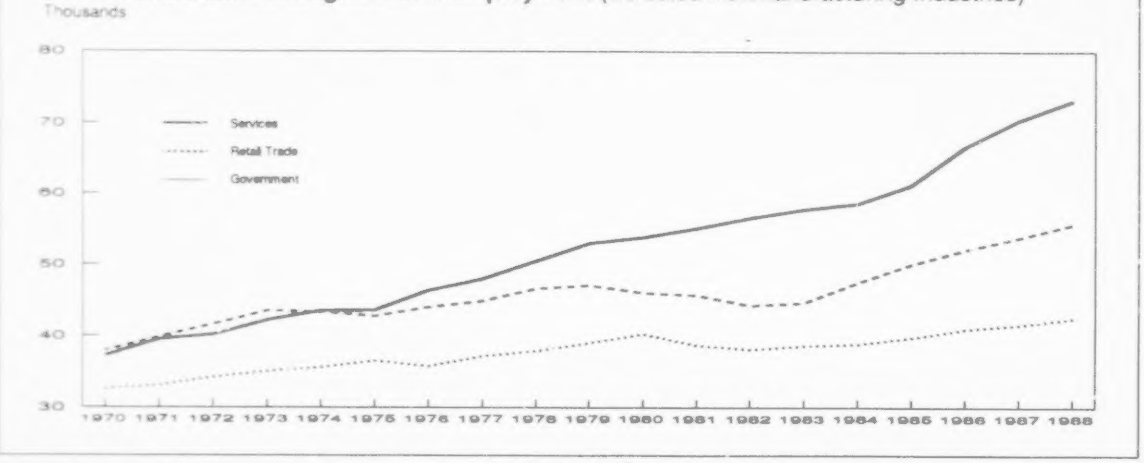
Indexes of Total Nonagricultural Wage and Salary Employment



Toledo MSA Nonagricultural Employment (Selected Manufacturing Industries)



Toledo MSA Nonagricultural Employment (Selected Nonmanufacturing Industries)



NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN TOLEDO MSA, 1988[a]
(in thousands)

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
TOTAL	284.9	277.2	276.1	279.4	282.4	285.0	285.5	283.1	282.9	289.5	291.3	294.5	292.4
MANUFACTURING	62.5	61.9	61.2	61.7	61.9	62.1	63.5	63.1	63.3	63.6	62.8	62.6	62.4
Durable Goods[b]	47.4	47.2	46.8	47.0	47.1	47.3	48.2	47.7	47.6	47.5	47.4	47.3	47.3
Stone, clay, and glass products	7.7	7.8	7.8	7.7	7.7	7.8	7.8	7.8	7.8	7.8	7.6	7.6	7.5
Primary metal industries	3.6	3.4	3.5	3.5	3.6	3.6	3.6	3.5	3.6	3.7	3.7	3.6	3.7
Fabricated metal products	7.4	7.1	7.1	7.2	7.4	7.4	7.6	7.6	7.4	7.5	7.5	7.4	7.3
Metal forgings and stampings	3.1	3.0	3.1	3.1	3.1	3.1	3.3	3.3	3.1	3.2	3.2	3.1	2.9
Machinery, except electrical	5.9	5.9	5.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.0	6.0
Electric and electronic equipment	2.3	2.5	2.5	2.5	2.4	2.3	2.3	2.2	2.2	2.1	2.2	2.2	2.2
Transportation equipment	15.8	16.0	15.7	15.7	15.7	15.8	16.0	15.9	15.8	15.7	15.6	15.7	15.7
Motor vehicles and equipment	14.9	15.1	14.9	14.8	14.8	14.9	15.1	14.9	14.9	14.7	14.7	14.7	14.8
Nondurable Goods[c]	15.1	14.6	14.4	14.6	14.8	14.8	15.3	15.3	15.7	16.1	15.4	15.3	15.0
Food and kindred products	4.1	3.7	3.8	3.8	3.9	4.0	4.0	4.1	4.4	4.7	4.0	4.2	4.2
Rubber and misc. plastics products	3.6	3.4	3.4	3.5	3.5	3.6	3.6	3.8	3.7	3.7	3.6	3.5	3.4
NONMANUFACTURING[d]	222.4	215.3	215.0	217.7	220.5	223.0	222.0	220.0	219.6	225.9	228.4	231.9	230.0
CONSTRUCTION	10.6	8.7	8.5	9.1	9.8	10.4	11.0	11.5	11.6	11.7	11.9	11.6	11.3
TRANSPORTATION AND PUBLIC UTILITIES	13.1	12.9	12.8	12.8	13.0	13.1	13.1	13.3	13.5	13.4	13.4	13.2	13.3
Trucking and warehousing	5.4	5.3	5.2	5.3	5.3	5.3	5.3	5.4	5.5	5.4	5.5	5.5	5.6
Communication, electric, gas services	4.8	4.7	4.7	4.7	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.7	4.8
WHOLESALE TRADE	14.9	14.6	14.6	14.7	14.8	14.9	15.0	15.0	15.0	14.9	15.0	14.9	14.9
Wholesale trade-durable goods	9.9	9.7	9.7	9.7	9.8	9.9	10.0	10.0	10.0	10.0	10.1	10.0	10.0
RETAIL TRADE	55.7	54.1	53.2	53.8	54.6	55.3	55.8	55.6	55.9	56.0	56.4	58.1	59.5
General merchandise stores	8.3	8.4	7.8	7.8	7.8	7.9	8.0	8.0	8.2	8.3	8.7	9.3	9.7

See footnotes at end of table.

NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN TOLEDO MSA, 1988[a] (continued)
(in thousands)

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
FINANCE, INSURANCE, AND REAL ESTATE	12.3	12.2	12.1	12.2	12.3	12.3	12.3	12.3	12.5	12.4	12.5	12.4	12.5
Banking	3.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.8	3.8	3.8	3.8	3.8
SERVICES	73.1	70.1	70.2	70.9	72.1	72.7	74.4	74.6	74.6	74.6	74.5	74.4	74.3
Business services	15.3	14.5	14.6	14.6	14.9	14.9	15.2	15.7	15.9	16.0	15.9	15.9	15.9
Health services	27.0	26.7	26.7	26.7	26.8	26.9	27.1	27.2	27.1	27.1	27.2	27.2	27.3
Hospitals	15.0	15.0	15.0	15.0	15.0	15.0	15.1	15.0	14.9	14.9	15.0	15.0	15.0
GOVERNMENT	42.5	42.5	43.5	44.0	43.8	44.0	40.0	37.5	36.2	42.6	44.5	47.0	43.9
State government	15.2	15.3	16.2	16.5	16.6	16.3	13.1	12.5	11.6	15.3	16.9	16.9	15.8
State government education	11.1	11.2	12.2	12.4	12.5	12.2	8.9	8.3	7.4	11.2	12.7	12.8	11.6
State government, except education ...	4.1	4.1	4.0	4.1	4.1	4.1	4.1	4.2	4.2	4.2	4.1	4.1	4.2
Local government	24.6	24.6	24.7	24.9	24.6	25.1	24.3	22.3	22.0	24.6	25.0	27.4	25.5
Local government education	14.0	14.4	14.6	14.7	14.4	14.7	13.7	11.7	11.4	14.2	14.6	14.9	15.1
Local government, except education ...	10.6	10.2	10.1	10.2	10.2	10.4	10.6	10.7	10.6	10.5	10.5	12.5	10.4

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Toledo area is defined as Fulton, Lucas, and Wood Counties. Based on March 1988 benchmark. Includes full- and part-time wage and salaried workers employed during pay periods which include the 12th of the month. Excludes self-employed, domestics, and armed forces. Subtotals may not add to totals, because of rounding or exclusion of minor groups. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; printing and publishing; chemicals and allied products; petroleum and coal products; leather and leather products. [d] Includes mining. [e] Depressed due to labor-management disputes.

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NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN TOLEDO MSA, 1987[a]

(in thousands)

Industry	1987 Average	January	February	March	April	May	June	July	August	September	October	November	December
TOTAL	278.0	271.2	271.5	273.4	277.5	280.3	278.7	274.5	274.4	280.5	283.6	284.9	285.9
MANUFACTURING	62.2	61.9	61.8	61.9	62.1	61.9	62.1	61.1	61.7	62.7	62.9	62.8	63.1
Durable Goods[b]	47.8	48.3	48.2	48.3	48.0	47.8	48.0	46.9	46.9	47.2	48.0	48.1	48.4
Stone, clay, and glass products	7.9	8.0	8.0	7.9	7.8	7.8	7.9	7.8	7.9	7.9	8.1	8.1	8.1
Primary metal industries	3.3	3.6	3.6	3.6	3.5	3.4	3.4	3.1	3.2	3.1	3.2	3.2	3.3
Fabricated metal products	7.5	7.7	7.7	7.7	7.6	7.6	7.5	7.4	7.3	7.2	7.2	7.2	7.2
Metal forgings and stampings	3.2	3.4	3.4	3.5	3.4	3.3	3.3	3.2	3.1	3.1	3.1	3.0	3.1
Machinery, except electrical	6.1	5.9	6.0	6.0	6.2	6.1	6.1	6.0	6.0	6.1	6.1	6.1	6.2
Electric and electronic equipment	2.6	2.7	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6
Transportation equipment	16.1	16.0	16.0	16.2	16.1	16.1	16.1	15.6	15.7	15.9	16.3	16.4	16.5
Motor vehicles and equipment	15.2	15.0	15.1	15.2	15.1	15.1	15.2	14.7	14.8	15.0	15.4	15.5	15.6
Nondurable Goods[c]	14.3	13.6	13.6	13.6	14.1	14.2	14.1	14.2	14.9	15.4	14.9	14.6	14.7
Food and kindred products	3.8	3.5	3.4	3.4	3.6	3.7	3.8	3.8	4.5	4.6	3.9	3.7	3.8
Rubber and misc. plastics products	3.0	2.8	2.8	2.9	2.9	2.9	2.7	2.8	2.9	3.2	3.4	3.4	3.3
NONMANUFACTURING[d]	215.9	209.3	209.7	211.6	215.5	218.4	216.5	213.5	212.6	217.9	220.8	222.2	222.8
CONSTRUCTION	10.1	9.0	8.7	8.8	9.5	10.3	10.7	10.8	10.8	10.6	11.0	10.9	10.4
TRANSPORTATION AND PUBLIC UTILITIES	13.7	13.1	13.0	13.1	13.5	13.6	13.9	14.1	14.1	14.1	13.9	13.7	13.8
Trucking and warehousing	5.4	5.1	5.1	5.1	5.2	5.3	5.4	5.5	5.6	5.6	5.7	5.7	5.8
Communication, electric, gas services	4.9	4.9	5.0	5.0	4.9	4.9	5.0	5.0	5.0	5.0	4.8	4.8	4.8
WHOLESALE TRADE	14.6	14.2	14.2	14.3	14.5	14.6	14.8	14.7	14.8	14.7	14.8	14.7	14.7
Wholesale trade-durable goods	9.8	9.4	9.5	9.5	9.6	9.7	9.9	9.9	9.9	9.9	10.0	9.9	9.8
RETAIL TRADE	53.8	52.8	51.9	52.3	53.2	53.8	54.2	53.8	53.9	53.9	54.1	55.6	56.7
General merchandise stores	7.9	8.1	7.6	7.6	7.5	7.4	7.4	7.5	7.6	7.7	8.0	8.7	9.1

See footnotes at end of table.

NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN TOLEDO MSA, 1987[a] (continued)
(in thousands)

Industry	1987 Average	January	February	March	April	May	June	July	August	September	October	November	December
FINANCE, INSURANCE, AND REAL ESTATE	11.6	11.0	11.1	11.1	11.3	11.5	11.5	11.7	11.9	11.8	12.0	12.1	12.1
Banking	3.5	3.5	3.4	3.4	3.5	3.5	3.5	3.6	3.6	3.6	3.6	3.6	3.6
SERVICES	70.3	67.2	67.8	68.8	70.1	70.9	71.4	71.1	71.1	71.6	71.4	71.4	71.3
Business services	14.3	13.2	13.5	13.6	14.1	14.5	14.6	14.3	14.4	14.5	14.8	14.9	14.9
Health services	26.9	26.7	26.7	26.8	26.7	26.8	26.9	27.1	27.2	27.1	26.8	26.9	27.0
Hospitals	15.2	15.0	15.1	15.2	15.1	15.2	15.4	15.4	15.4	15.2	15.2	15.1	15.1
GOVERNMENT	41.5	41.8	42.8	43.1	43.1	43.4	39.9	37.0	35.8	40.8	43.3	43.6	43.6
State government	14.9	15.2	16.0	16.3	16.2	16.2	12.7	12.3	11.5	14.3	16.3	16.3	16.1
State government education	10.9	11.2	12.1	12.2	12.2	12.1	8.6	8.2	7.3	10.3	12.3	12.3	12.1
State government, except education ...	4.0	4.0	4.0	4.0	4.0	4.0	4.1	4.1	4.1	4.0	4.0	4.0	4.0
Local government	23.9	23.9	24.1	24.2	24.3	24.6	24.5	22.1	21.7	23.9	24.4	24.6	24.8
Local government education	13.6	13.7	14.0	14.1	14.0	14.2	13.8	11.2	10.9	13.6	14.2	14.4	14.6
Local government, except education ...	10.4	10.2	10.1	10.1	10.2	10.5	10.7	11.0	10.8	10.3	10.2	10.2	10.2

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Toledo area is defined as Fulton, Lucas, and Wood Counties. Based on March 1988 benchmark. Includes full- and part-time wage and salaried workers employed during pay periods which include the 12th of the month. Excludes self-employed, domestics, and armed forces. Subtotals may not add to totals, because of rounding or exclusion of minor groups. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; printing and publishing; chemicals and allied products; petroleum and coal products; leather and leather products. [d] Includes mining. [e] Depressed due to labor-management disputes.

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AVERAGE HOURLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS IN TOLEDO MSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	$13.12	$13.10	$12.75	$13.19	$13.23	$13.04	$13.17	$12.92	$12.94	$13.15	$13.19	$13.43	$13.30
Durable Goods[b]	13.59	13.58	13.26	13.70	13.79	13.57	13.67	13.38	13.28	13.64	13.61	13.86	13.71
Stone, clay, and glass products	12.76	12.71	12.67	12.92	12.72	12.80	12.56	12.82	12.71	12.78	12.83	12.77	12.83
Primary metal industries	11.30	11.25	11.20	11.21	11.29	11.22	11.45	11.07	11.37	11.38	11.43	11.32	11.39
Fabricated metal products	12.42	12.97	12.88	12.81	12.77	12.73	12.62	12.15	12.09	12.22	12.01	11.89	11.99
Metal forgings and stampings	15.12	15.73	15.62	15.42	15.44	15.38	15.14	14.48	14.83	14.85	14.69	14.51	15.27
Machinery, except electrical	11.97	12.00	11.99	11.91	12.04	11.96	11.90	11.98	11.81	11.97	12.01	12.02	12.08
Electric and electronic equipment	12.29	12.80	12.73	12.29	12.16	12.11	11.52	11.56	11.61	12.52	12.56	12.73	12.50
Transportation equipment	16.63	16.26	15.79	16.63	16.83	16.39	16.80	16.39	16.32	16.89	16.88	17.25	16.92
Motor vehicles and equipment	16.77	16.37	15.90	16.75	16.96	16.55	16.96	16.57	16.49	17.04	17.02	17.38	17.03
Nondurable Goods[c]	11.40	11.28	10.86	11.24	11.12	10.99	11.27	11.26	11.79	11.50	11.64	11.87	11.83
Food and kindred products	13.12	12.47	12.41	13.37	12.66	12.78	12.84	12.92	13.77	12.97	13.25	14.03	13.67
Rubber and misc. plastics products	8.39	8.41	8.19	8.19	8.38	8.33	8.45	8.29	8.30	8.41	8.47	8.58	8.72
TRANSPORTATION AND PUBLIC UTILITIES	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Communication, electric, gas services ..	14.54	14.55	14.36	14.70	14.50	14.56	14.52	14.59	14.72	14.56	14.56	14.57	14.30
WHOLESALE TRADE	9.81	9.62	9.61	9.64	9.62	9.72	9.76	9.94	10.05	9.95	9.99	9.88	9.86
RETAIL TRADE[d]	5.61	5.56	5.55	5.63	5.61	5.58	5.58	5.56	5.54	5.60	5.68	5.69	5.71

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Toledo area is defined as Fulton, Lucas, and Wood Counties. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average earnings are computed from gross payroll before tax and other deductions. Includes pay for overtime, incentive bonuses paid regularly, holidays, vacations, and sick leave. Excludes special bonuses, retroactive pay, and payments in kind. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; printing and publishing; chemicals and allied products; petroleum and coal products; leather and leather products. [d] Money payments only, tips not included. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus 43216 4-1-89 RS-790-4-7 (1988)

AVERAGE WEEKLY HOURS OF PRODUCTION OR NONSUPERVISORY WORKERS IN TOLEDO MSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	43.4	43.7	41.3	43.1	43.3	42.4	43.4	42.1	42.5	44.6	44.4	45.1	44.3
Durable Goods[b]	43.5	44.0	41.3	43.2	43.4	42.7	43.8	42.1	42.3	44.6	44.6	45.4	44.8
Stone, clay, and glass products	40.2	40.2	39.8	41.2	40.1	39.7	39.4	39.8	41.2	40.1	40.9	39.9	40.5
Primary metal industries	43.6	43.0	42.4	43.2	42.9	42.8	45.5	41.5	44.7	44.3	43.6	44.3	45.2
Fabricated metal products	43.5	46.4	43.5	42.2	42.0	42.6	43.4	40.9	41.3	43.9	44.5	44.8	46.3
Metal forgings and stampings	44.7	48.9	46.5	44.6	45.5	45.8	45.9	41.3	42.1	43.5	43.0	43.8	46.1
Machinery, except electrical	42.9	43.4	43.4	42.9	42.8	42.3	42.7	42.0	41.7	42.6	43.1	43.4	44.5
Electric and electronic equipment	43.3	43.9	42.9	41.2	42.0	42.7	40.9	40.8	42.1	46.6	45.6	45.7	46.3
Transportation equipment	45.2	45.2	38.9	44.7	46.2	44.4	46.7	43.5	42.5	46.7	47.1	49.6	46.5
Motor vehicles and equipment	45.3	45.3	38.8	44.8	46.4	44.5	46.9	43.5	42.4	46.9	47.2	49.9	46.6
Nondurable Goods[c]	42.7	42.5	41.3	42.4	42.7	41.4	42.1	42.1	43.4	44.6	43.3	44.1	42.6
Food and kindred products	45.0	45.3	43.0	44.2	43.7	42.3	42.7	43.9	47.1	48.8	44.5	48.1	45.3
Rubber and misc. plastics products	41.6	41.3	40.9	41.1	43.0	41.2	42.6	42.1	40.9	43.0	40.6	41.5	40.7
TRANSPORTATION AND PUBLIC UTILITIES	....	....	....	....	....	....	....	....	....	....	....	....	....
Communication, electric, gas services	41.6	41.1	40.7	42.0	41.7	41.5	41.4	42.7	42.7	41.9	41.4	41.5	41.0
WHOLESALE TRADE	39.0	38.5	38.3	38.6	38.8	38.8	38.7	39.2	39.5	38.8	39.9	39.8	39.5
RETAIL TRADE	28.6	28.7	28.4	28.7	28.9	28.6	28.7	29.0	28.9	28.2	28.1	27.9	28.9

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Toledo area is defined as Fulton, Lucas, and Wood Counties. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average weekly hours are computed from the sum of hours worked plus hours paid for stand-by or reporting time, sick leave, holidays, and vacations. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; printing and publishing; chemicals and allied products; petroleum and coal products; leather and leather products. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

Labor Market Information Division
Ohio Bureau of Employment Services
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AVERAGE WEEKLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS IN TOLEDO MSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	$569.41	$572.47	$526.58	$568.49	$572.86	$552.90	$571.58	$543.93	$549.95	$586.49	$585.64	$605.69	$589.19
Durable Goods[b]	591.17	597.52	547.64	591.84	598.49	579.44	598.75	563.30	561.74	608.34	607.01	629.24	614.21
Stone, clay, and glass products	512.95	510.94	504.27	532.30	510.07	508.16	494.86	510.24	523.65	512.48	524.75	509.52	519.62
Primary metal industries	492.68	483.75	474.88	484.27	484.34	480.22	520.98	459.41	508.24	504.13	498.35	501.48	514.83
Fabricated metal products	540.27	601.81	560.28	540.58	536.34	542.30	547.71	496.94	499.32	536.45	534.45	532.67	555.14
Metal forgings and stampings	675.86	769.20	726.33	687.73	702.52	704.40	694.93	598.02	624.34	645.98	631.67	635.54	703.95
Machinery, except electrical	513.51	520.80	520.37	510.94	515.31	505.91	508.13	503.16	492.48	509.92	517.63	521.67	537.56
Electric and electronic equipment	532.16	561.92	546.12	506.35	510.72	517.10	471.17	471.65	488.78	583.43	572.74	581.76	578.75
Transportation equipment	751.68	734.95	614.23	743.36	777.55	727.72	784.56	712.97	693.60	788.76	795.05	855.60	786.78
Motor vehicles and equipment	759.68	741.56	616.92	750.40	786.94	736.48	795.42	720.80	699.18	799.18	803.34	867.26	793.60
Nondurable Goods[c]	486.78	479.40	448.52	476.58	474.82	454.99	474.47	474.05	511.69	512.90	504.01	523.47	503.96
Food and kindred products	590.40	564.89	533.63	590.95	553.24	540.59	548.27	567.19	648.57	632.94	589.63	674.84	619.25
Rubber and misc. plastics products	349.02	347.33	334.97	336.61	360.34	343.20	359.97	349.01	339.47	361.63	343.88	356.07	354.90
TRANSPORTATION AND PUBLIC UTILITIES	......	......	......	......	......	......	......	......	......	......	......	......	......
Communication, electric, gas services	604.86	598.01	584.45	617.40	604.65	604.24	601.13	622.99	628.54	610.06	602.78	604.66	586.30
WHOLESALE TRADE	382.59	370.37	368.06	372.10	373.26	377.14	377.71	389.65	396.98	386.06	398.60	393.22	389.47
RETAIL TRADE[d]	160.45	159.57	157.62	161.58	162.13	159.59	160.15	161.24	160.11	157.92	159.61	158.75	165.02

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Toledo area is defined as Fulton, Lucas, and Wood Counties. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average earnings are computed from gross payroll before tax and other deductions. Includes pay for overtime, incentive bonuses paid regularly, holidays, vacations, and sick leave. Excludes special bonuses, retroactive pay, and payments in kind. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; instruments and related products; miscellaneous manufacturing. [c] Includes tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; printing and publishing; chemicals and allied products; petroleum and coal products; leather and leather products. [d] Money payments only, tips not included. [e] Low due to labor-management disputes during part of pay periods. [†] Not comparable to previous estimates.

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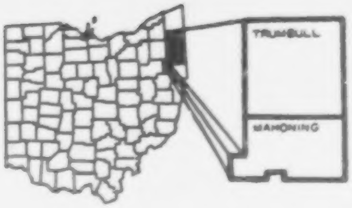
YOUNGSTOWN-WARREN
METROPOLITAN STATISTICAL AREA

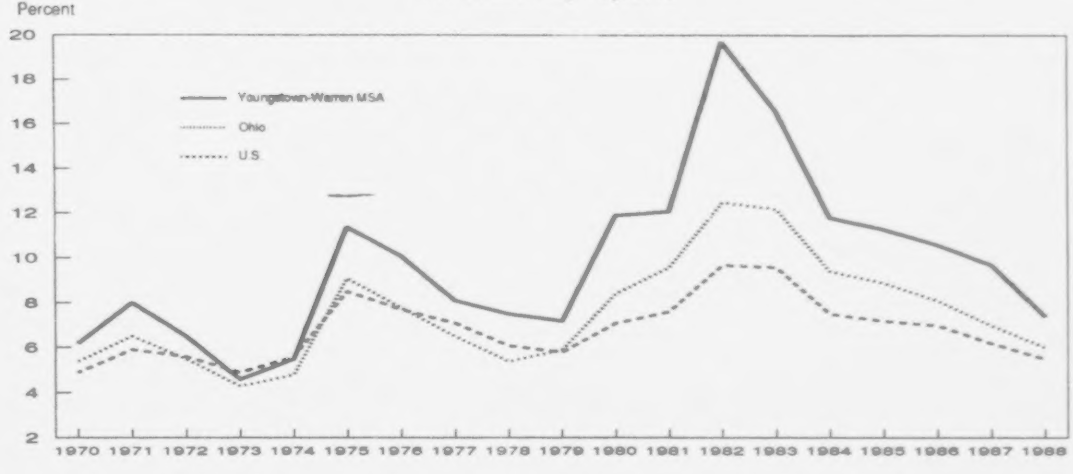


The estimated annual average civilian labor force in the Youngstown-Warren metropolitan area, distributed by place of residence, increased 700 from 1987 to 222,300 in 1988. Over the year, total employment rose 5,900 to 205,900, while unemployment decreased 5,200 to 16,400. The unemployment rate fell 2.3 points, from 9.7 percent in 1987 to 7.4 percent in 1988. (See table, page 105, top.)

Nonfarm wage and salary employment totaled 193,900 in 1988, increasing 5,600 above the 1987 level. Growth in the nonmanufacturing sector contributed most to the gain. Noteworthy improvements occurred in services and retail trade. The manufacturing workforce rose 1,600, a 3.2 percent increase from 1987. Moderate expansion was recorded in transportation equipment, primary metal industries, and fabricated metal products.

In the Youngstown-Warren area, nonagricultural payroll employment advanced 16,500 since the 1979-1983 recessionary period, recovering 45.3 percent of jobs lost. Primary growth industries were services, retail trade, construction, and wholesale trade. Manufacturing employment remained 2,300 below the 1983 level with losses still evident in primary metal industries, especially blast furnace and basic steel products. Transportation equipment has recovered 25.0 percent of jobs lost, an increase of 1,400 since the economic downturn. (See table, page 105, bottom.)

Youngstown–Warren MSA, Ohio and U.S. Unemployment Rates
Not Seasonally Adjusted



Youngstown–Warren MSA Civilian Labor Force and Nonagricultural Wage and Salary Employment[a] (Employed and Unemployed in Thousands)

Civilian Labor Force	Employment	Unemployment	Unemployment Rate[b] MSA	Unemployment Rate[b] Ohio	Unemployment Rate[b] U.S.		Nonagricultural Wage & Salary Employment	Manufacturing	Nonmfg.
226.9	212.1	14.8	6.5	5.5	5.6	1972	201.1	87.9	113.2
232.5	221.8	10.8	4.6	4.3	4.9	1973	211.6	93.0	118.5
236.7	223.7	13.0	5.5	4.8	5.6	1974	213.5	92.0	121.5
236.7	209.8	26.9	11.4	9.1	8.5	1975	200.7	80.8	120.0
234.2	210.5	23.7	10.1	7.8	7.7	1976	203.5	80.6	122.9
234.0	215.0	19.0	8.1	6.5	7.1	1977	208.0	81.1	126.9
235.2	217.5	17.7	7.5	5.4	6.1	1978	210.3	79.4	130.9
237.1	219.9	17.1	7.2	5.9	5.8	1979	213.9	79.9	133.9
238.9	210.5	28.4	11.9	8.4	7.1	1980	203.1	70.8	132.3
234.0	205.7	28.2	12.1	9.6	7.6	1981	198.7	67.3	131.4
237.0	190.3	46.6	19.7	12.5	9.7	1982	180.6	52.9	127.7
225.6	188.1	37.5	16.6	12.2	9.6	1983	177.5	52.8	124.7
222.2	195.9	26.3	11.8	9.4	7.5	1984	182.5	55.1	127.4
221.3	196.3	25.0	11.3	8.9	7.2	1985	184.2	52.7	131.4
223.7	200.0	23.7	10.6	8.1	7.0	1986	187.1	51.7	135.4
221.6	200.0	21.6	9.7	7.0	6.2	1987	188.3	48.9	139.4
222.3	205.9	16.4	7.4	6.0	5.5	1988	193.9	50.5	143.5

[a] Civilian labor force estimates are based on place of residence.
Nonagricultural wage and salary employment estimates are based on place of work.

[b] Unemployment as percent of civilian labor force.

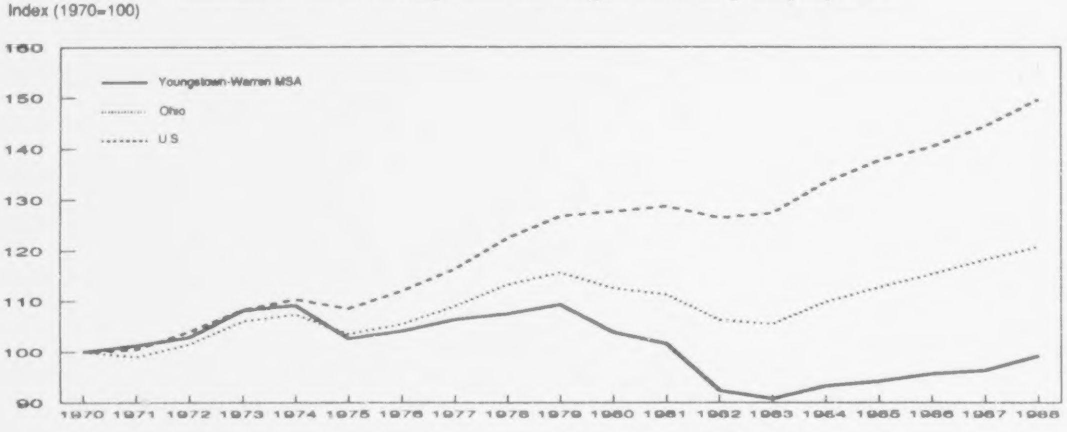
Nonagricultural Wage and Salary Employment in Selected Industries in the Youngstown–Warren Metropolitan Statistical Area Annual Average Data for 1979, 1983, and 1988

Industry	Employment (in thousands) 1979	Employment (in thousands) 1983	Employment (in thousands) 1988	Employment Changes 1979 - 1983	Employment Changes 1983 - 1988	Percent Recovery MSA	Percent Recovery Ohio
TOTAL	213.9	177.5	193.9	-36.4	16.5	45.3	150.5
Manufacturing	79.9	52.8	50.5	-27.2	-2.3	–	11.7
Durable Goods	73.9	47.7	45.2	-26.2	-2.5	–	7.8
Primary Metal Industries	35.7	22.4	18.9	-13.3	-3.4	–	–
Blast Furnace & Basic Steel Products	20.9	9.0	5.8	-11.8	-3.2	–	–
Fabricated Metal Products	9.7	7.7	7.4	-2.1	-.2	–	7.2
Transportation Equipment	13.7	8.3	9.6	-5.4	1.4	25.0	28.8
Nondurable Goods	6.0	5.0	5.2	-1.0	.2	21.1	29.0
Construction	7.0	4.8	7.5	-2.2	2.7	124.1	101.3
Transportation and Public Utilities	10.1	7.6	7.6	-2.6	.0	–	38.7
Wholesale Trade	8.1	7.7	10.2	-.5	2.6	562.9	308.7
Retail Trade	38.5	34.3	39.6	-4.2	5.3	127.1	527.1
Finance, Insurance, and Real Estate	7.0	7.1	8.3	.1	1.2	+	+
Services	37.2	38.9	45.3	1.7	6.4	+	+
Government	25.6	23.6	24.2	-1.9	.6	29.3	227.4

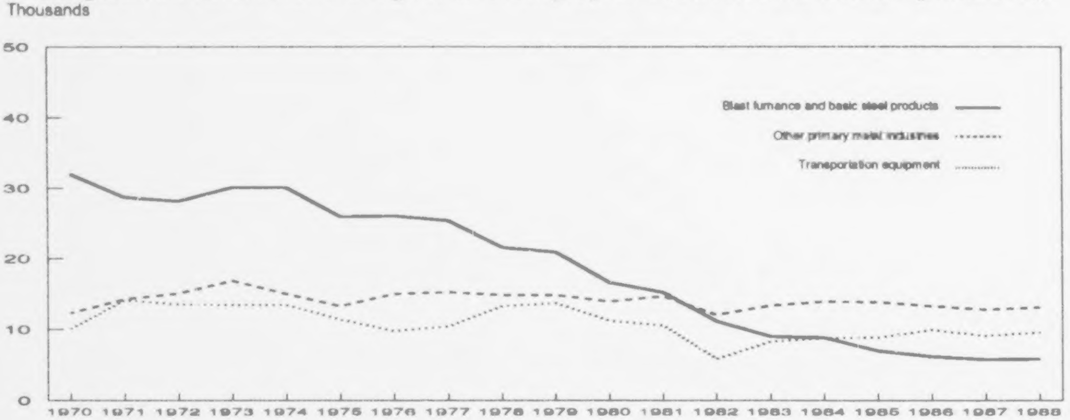
+ No Downturn, 1979 – 1983.

– No Upturn, 1983 – 1988.

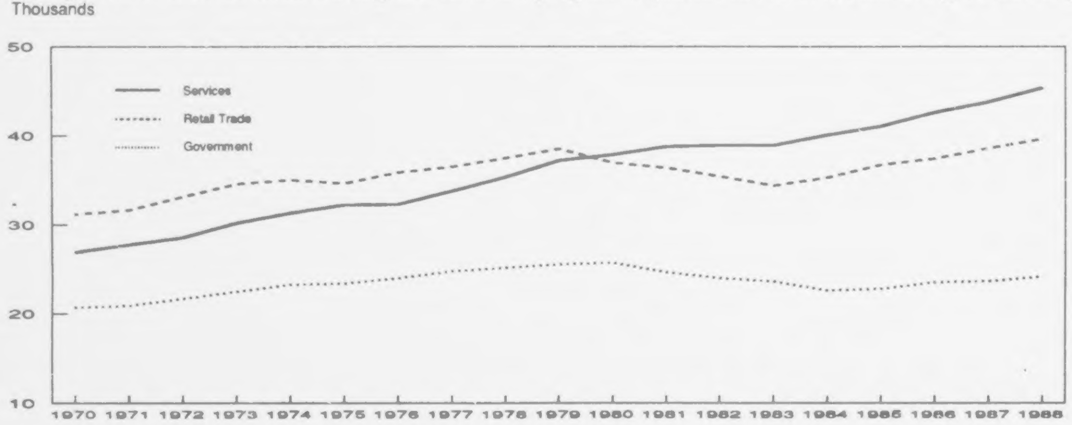
Indexes of Total Nonagricultural Wage and Salary Employment



Youngstown–Warren MSA Nonagricultural Employment (Selected Manufacturing Industries)



Youngstown–Warren MSA Nonagricultural Employment (Selected Nonmanufacturing Industries)



NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN YOUNGSTOWN-WARREN MSA, 1988[a]
(in thousands)

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
TOTAL	193.9	187.2	187.7	189.4	192.1	195.6	196.9	192.6	193.8	197.6	198.0	199.8	196.7
MANUFACTURING	50.5	49.4	49.6	50.0	50.4	50.7	51.1	48.9	50.3	51.8	51.7	51.9	49.8
Durable Goods[b]	45.2	44.4	44.6	45.0	45.3	45.5	45.8	43.7	44.9	46.3	46.2	46.5	44.6
Primary metal industries	18.9	18.3	18.5	18.7	18.9	18.9	19.3	17.9	18.8	19.4	19.3	19.4	19.5
Blast furnace and basic steel products	5.8	5.9	5.9	5.9	5.8	5.8	5.9	5.8	5.8	5.8	5.8	5.7	5.8
Fabricated metal products	7.4	7.2	7.2	7.4	7.5	7.6	7.6	7.1	7.3	7.6	7.5	7.6	7.6
Machinery, except electrical	3.7	3.6	3.6	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.8	3.9
Electric and electronic equipment	2.3	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4
Transportation equipment	9.6	9.7	9.8	9.8	9.8	9.8	9.6	9.4	9.5	10.0	9.9	9.9	8.0
Nondurable Goods[c]	5.2	5.0	5.0	5.0	5.1	5.2	5.2	5.3	5.4	5.4	5.5	5.4	5.3
NONMANUFACTURING[d]	143.5	137.9	138.1	139.5	141.7	144.8	145.8	143.6	143.4	145.9	146.3	147.9	146.9
CONSTRUCTION	7.5	5.8	5.6	6.0	7.0	7.7	8.2	8.5	8.7	8.5	8.6	8.2	7.5
TRANSPORTATION AND PUBLIC UTILITIES	7.6	7.3	7.3	7.4	7.5	7.5	7.6	7.6	7.6	7.7	7.8	7.7	7.8
Communication, electric, gas services	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.8
WHOLESALE TRADE	10.2	9.7	9.7	9.8	10.0	10.2	10.3	10.4	10.4	10.5	10.6	10.5	10.5
Wholesale trade-durable goods	6.6	6.3	6.3	6.3	6.4	6.6	6.6	6.6	6.7	6.7	6.8	6.7	6.7
RETAIL TRADE	39.6	38.7	38.0	38.2	38.8	39.5	40.0	39.9	40.1	40.1	40.3	40.7	41.3
General merchandise stores	5.3	5.5	5.2	5.1	5.1	5.1	5.1	5.2	5.2	5.2	5.3	5.6	5.7
FINANCE, INSURANCE, AND REAL ESTATE	8.3	8.1	8.1	8.1	8.2	8.3	8.4	8.5	8.5	8.4	8.3	8.2	8.3
Banking	2.8	2.8	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.8
SERVICES	45.3	43.2	43.5	44.1	44.9	45.6	46.1	46.2	46.3	46.8	46.1	45.6	45.7
Health services	20.4	20.0	19.9	20.0	20.1	20.2	20.5	20.6	20.7	20.6	20.6	20.5	20.8
Hospitals	10.6	10.4	10.4	10.4	10.5	10.5	10.7	10.7	10.7	10.7	10.7	10.6	10.7
GOVERNMENT	24.2	24.3	25.2	25.2	24.6	25.3	24.4	21.8	21.0	23.1	23.9	26.2	25.0
State government	4.1	4.0	4.5	4.5	4.1	4.4	4.5	3.7	3.4	3.3	4.1	4.5	4.6
State government education	2.6	2.5	3.0	3.0	2.6	2.9	3.0	2.1	1.8	1.8	2.6	3.0	3.1
State government, except education	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.5	1.5	1.5	1.5
Local government	18.0	18.3	18.6	18.6	18.5	18.9	17.9	16.1	15.6	17.7	17.8	19.6	18.2
Local government education	11.6	12.2	12.5	12.4	12.3	12.6	11.5	9.5	9.1	11.3	11.5	12.0	11.9
Local government, except education	6.4	6.1	6.2	6.2	6.2	6.3	6.4	6.5	6.5	6.4	6.3	7.7	6.3

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Youngstown-Warren area is defined as Mahoning and Trumbull Counties. Based on March 1988 benchmark. Includes full- and part-time wage and salaried workers employed during pay periods which include the 12th of the month. Excludes self-employed, domestics, and armed forces. Subtotals may not add to totals, because of rounding or exclusion of minor groups. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; instruments and related products; miscellaneous manufacturing. [c] Includes food and kindred products; tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; printing and publishing; chemicals and allied products; petroleum and coal products; rubber and misc. plastics products; leather and leather products. [d] Includes mining. [e] Depressed due to labor-management disputes.

Labor Market Information Division
Ohio Bureau of Employment Services
Columbus 43216 4-1-89 RS-790-1-8 (1988)

NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT IN YOUNGSTOWN-WARREN MSA, 1987[a]
(in thousands)

Industry	1987 Average	January	February	March	April	May	June	July	August	September	October	November	December
TOTAL	188.3	183.9	184.3	185.2	187.3	189.6	190.9	183.4	185.1	191.6	192.4	193.2	193.0
MANUFACTURING	48.9	49.2	49.3	49.6	49.8	49.1	49.2	43.6	45.9	50.5	50.2	50.3	50.0
Durable Goods[b]	43.8	44.2	44.4	44.6	44.6	44.1	44.2	38.6	40.8	45.4	45.1	45.1	45.0
Primary metal industries	18.5	18.1	18.4	18.6	18.4	18.0	18.1	17.5	18.4	19.0	19.1	19.1	18.8
Blast furnace and basic steel products	5.7	5.5	5.7	5.8	5.6	5.5	5.6	5.7	5.7	5.8	5.8	5.9	6.0
Fabricated metal products	7.2	7.2	7.2	7.3	7.3	7.4	7.3	6.2	6.6	7.6	7.5	7.5	7.4
Machinery, except electrical	3.6	3.7	3.7	3.8	3.8	3.8	3.8	3.7	3.6	3.6	3.3	3.3	3.6
Electric and electronic equipment	2.3	2.4	2.3	2.2	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.3	2.4
Transportation equipment	9.1	10.0	9.8	9.6	9.6	9.5	9.5	5.8	6.7	9.7	9.6	9.7	9.7
Nondurable Goods[c]	5.1	5.0	5.0	5.0	5.2	5.0	5.0	5.0	5.0	5.1	5.2	5.2	5.0
NONMANUFACTURING[d]	139.4	134.7	134.9	135.6	137.6	140.5	141.6	139.8	139.3	141.1	142.1	142.9	142.9
CONSTRUCTION	7.3	5.5	5.4	5.7	6.7	7.5	7.9	8.4	8.5	8.1	8.2	7.9	7.3
TRANSPORTATION AND PUBLIC UTILITIES	7.6	7.5	7.5	7.5	7.5	7.6	7.7	7.6	7.6	7.7	7.6	7.6	7.6
Communication, electric, gas services	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9
WHOLESALE TRADE	9.6	8.9	8.9	9.0	9.3	9.6	9.8	9.8	9.8	9.8	10.0	10.0	10.0
Wholesale trade-durable goods	6.1	5.6	5.7	5.7	6.0	6.2	6.2	6.3	6.3	6.2	6.3	6.3	6.3
RETAIL TRADE	38.6	37.5	37.1	37.5	38.0	38.6	39.1	39.3	39.3	39.1	38.8	39.3	39.9
General merchandise stores	5.5	5.6	5.3	5.3	5.3	5.3	5.3	5.4	5.5	5.4	5.5	5.9	5.9
FINANCE, INSURANCE, AND REAL ESTATE	8.2	8.1	8.0	8.0	8.1	8.2	8.3	8.4	8.4	8.4	8.3	8.3	8.3
Banking	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.8	2.8
SERVICES	43.8	42.3	42.6	42.5	43.3	44.0	44.3	44.6	44.1	44.9	44.6	44.4	44.2
Health services	19.6	19.0	19.0	19.1	19.3	19.4	19.5	19.7	19.8	19.8	20.0	20.0	20.2
Hospitals	10.2	10.0	10.0	10.0	10.1	10.1	10.1	10.4	10.4	10.4	10.4	10.4	10.4
GOVERNMENT	23.7	24.3	24.7	24.8	24.0	24.4	23.9	21.1	20.9	22.5	23.9	24.8	24.9
State government	4.1	4.0	4.3	4.4	4.0	4.4	4.3	3.6	3.4	3.3	4.0	4.4	4.4
State government education	2.6	2.5	2.9	2.9	2.6	2.9	2.8	2.0	1.8	1.8	2.6	2.9	3.0
State government, except education	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.5	1.5	1.5	1.5
Local government	17.6	18.1	18.3	18.4	17.9	18.0	17.5	15.4	15.4	17.1	17.8	18.3	18.4
Local government education	11.3	11.8	12.0	12.1	11.8	11.8	11.2	9.0	9.1	11.0	11.7	12.3	12.2
Local government, except education	6.2	6.3	6.3	6.3	6.1	6.1	6.3	6.4	6.3	6.2	6.1	6.1	6.2

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Youngstown-Warren area is defined as Mahoning and Trumbull Counties. Based on March 1988 benchmark. Includes full- and part-time wage and salaried workers employed during pay periods which include the 12th of the month. Excludes self-employed, domestics, and armed forces. Subtotals may not add to totals, because of rounding or exclusion of minor groups. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; instruments and related products; miscellaneous manufacturing. [c] Includes food and kindred products; tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; printing and publishing; chemicals and allied products; petroleum and coal products; rubber and misc. plastics products; leather and leather products. [d] Includes mining. [e] Depressed due to labor-management disputes.

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AVERAGE HOURLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS IN YOUNGSTOWN-WARREN MSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	$13.52	$13.34	$13.37	$13.41	$13.55	$13.58	$13.60	$13.43	$13.40	$13.59	$13.63	$13.68	$13.66
Durable Goods[b]	13.79	13.60	13.62	13.65	13.82	13.82	13.86	13.70	13.66	13.88	13.92	13.96	13.94
Primary metal industries	14.94	14.59	14.59	14.65	15.02	14.97	15.11	14.93	14.85	15.05	15.15	15.18	15.12
Blast furnace and basic steel products	13.71	13.56	13.97	13.92	13.62	13.72	13.77	13.74	13.52	13.41	13.59	13.73	13.90
Fabricated metal products	13.27	13.11	13.15	13.19	13.35	13.37	13.43	13.03	13.05	13.31	13.44	13.45	13.30
Machinery, except electrical	11.45	11.65	11.42	11.44	11.41	11.30	11.31	11.37	11.41	11.53	11.49	11.49	11.56
Electric and electronic equipment	11.15	11.10	11.18	11.09	11.07	11.09	11.01	11.25	11.16	11.27	11.15	11.23	11.24
Transportation equipment	14.56	14.67	14.63	14.64	14.54	14.55	14.52	14.51	14.36	14.54	14.47	14.54	14.75
Nondurable Goods[c]	10.39	10.34	10.27	10.39	10.24	10.62	10.67	10.48	10.49	10.22	10.28	10.33	10.34
TRANSPORTATION AND PUBLIC UTILITIES	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Communication, electric, gas services ..	13.81	13.58	13.60	13.67	13.59	13.68	13.65	13.82	13.95	13.95	14.18	14.08	13.95
WHOLESALE TRADE	9.36	9.20	9.23	9.27	9.29	9.41	9.22	9.37	9.28	9.39	9.49	9.52	9.57
RETAIL TRADE[d]	6.03	5.98	6.00	6.01	6.01	5.97	6.05	6.06	6.02	6.03	6.01	6.10	6.10

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Youngstown-Warren area is defined as Mahoning and Trumbull Counties. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average earnings are computed from gross payroll before tax and other deductions. Includes pay for overtime, incentive bonuses paid regularly, holidays, vacations, and sick leave. Excludes special bonuses, retroactive pay, and payments in kind. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; instruments and related products; miscellaneous manufacturing. [c] Includes food and kindred products; tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; printing and publishing; chemicals and allied products; petroleum and coal products; rubber and misc. plastics products; leather and leather products. [d] Money payments only, tips not included. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

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AVERAGE WEEKLY HOURS OF PRODUCTION OR NONSUPERVISORY WORKERS IN YOUNGSTOWN-WARREN MSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	42.6	41.8	41.5	41.6	42.1	43.7	42.8	42.3	41.6	43.4	43.0	43.4	43.5
Durable Goods[b]	42.8	42.0	41.7	41.8	42.3	44.0	42.9	42.6	41.9	43.6	43.2	43.7	43.9
Primary metal industries	42.7	41.6	41.6	41.6	42.9	42.9	43.4	41.8	41.9	43.4	43.7	44.0	43.7
Blast furnace and basic steel products	45.6	44.6	47.3	47.0	44.3	45.1	45.6	45.8	44.7	45.5	45.6	45.1	46.3
Fabricated metal products	42.5	41.4	41.1	41.6	42.9	43.9	44.0	41.6	41.3	41.7	43.8	44.4	42.3
Machinery, except electrical	42.7	43.4	42.6	42.4	41.7	41.9	41.1	42.6	42.1	43.7	43.4	43.1	44.3
Electric and electronic equipment	40.8	41.7	40.4	40.7	40.7	40.3	41.2	40.4	41.2	41.7	41.0	40.7	39.4
Transportation equipment	44.0	42.8	42.5	42.6	42.1	48.0	42.7	45.1	42.4	46.0	43.0	44.3	47.5
Nondurable Goods[c]	40.1	39.3	38.9	39.4	39.8	40.1	41.4	40.1	39.3	41.6	40.7	40.8	39.3
TRANSPORTATION AND PUBLIC UTILITIES	....	....	....	....	....	....	....	....	....	....	....	....	....
Communication, electric, gas services ..	40.1	39.6	39.6	39.7	39.6	39.9	39.6	40.5	40.5	40.4	40.9	40.5	40.1
WHOLESALE TRADE	38.9	37.6	38.1	37.8	38.8	38.5	38.6	38.7	39.6	39.6	39.7	39.6	39.4
RETAIL TRADE	29.2	28.6	28.6	28.7	28.8	29.4	29.5	29.7	29.6	29.1	29.1	28.9	30.3

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Youngstown-Warren area is defined as Mahoning and Trumbull Counties. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average weekly hours are computed from the sum of hours worked plus hours paid for stand-by or reporting time, sick leave, holidays, and vacations. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; instruments and related products; miscellaneous manufacturing. [c] Includes food and kindred products; tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; printing and publishing; chemicals and allied products; petroleum and coal products; rubber and misc. plastics products; leather and leather products. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

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AVERAGE WEEKLY EARNINGS OF PRODUCTION OR NONSUPERVISORY WORKERS IN YOUNGSTOWN-WARREN MSA, 1988[a]

Industry	1988 Average	January	February	March	April	May	June	July	August	September	October	November	December
MANUFACTURING	$575.95	$557.61	$554.86	$557.86	$570.46	$593.45	$582.08	$568.09	$557.44	$589.81	$586.09	$593.71	$594.21
Durable Goods[b]	590.21	571.20	567.95	570.57	584.59	608.08	594.59	583.62	572.35	605.17	601.34	610.05	611.97
Primary metal industries	637.94	606.94	606.94	609.44	644.36	642.21	655.77	624.07	622.22	653.17	662.06	667.92	660.74
Blast furnace and basic steel products	625.18	604.78	660.78	654.24	603.37	618.77	627.91	629.29	604.34	610.16	619.70	619.22	643.57
Fabricated metal products	563.98	542.75	540.47	548.70	572.72	586.94	590.92	542.05	538.97	555.03	588.67	597.18	562.59
Machinery, except electrical	488.92	505.61	486.49	485.06	475.80	473.47	464.84	484.36	480.36	503.86	498.67	495.22	512.11
Electric and electronic equipment	454.92	462.87	451.67	451.36	450.55	446.93	453.61	454.50	459.79	469.96	457.15	457.06	442.86
Transportation equipment	640.64	627.88	621.78	623.66	612.13	698.40	620.00	654.40	608.86	668.84	622.21	644.12	700.63
Nondurable Goods[c]	416.64	406.36	399.50	409.37	407.55	425.86	441.74	420.25	412.26	425.15	418.40	421.46	406.36
TRANSPORTATION AND PUBLIC UTILITIES	......	......	......	......	......	......	......	......	......	......	......	......	......
Communication, electric, gas services ..	553.78	537.77	538.56	542.70	538.16	545.83	540.54	559.71	564.98	563.58	579.96	570.24	559.40
WHOLESALE TRADE	364.10	345.92	351.66	350.41	360.45	362.29	355.89	362.62	367.49	371.84	376.75	376.99	377.06
RETAIL TRADE[d]	176.08	171.03	171.60	172.49	173.09	175.52	178.48	179.98	178.19	175.47	174.89	176.29	184.83

[a] Estimated in cooperation with U.S. Bureau of Labor Statistics. Youngstown-Warren area is defined as Mahoning and Trumbull Counties. Data relate to full- and part-time production workers in manufacturing (nonsupervisory employees in nonmanufacturing) employed during pay periods which include the 12th of the month. Average earnings are computed from gross payroll before tax and other deductions. Includes pay for overtime, incentive bonuses paid regularly, holidays, vacations, and sick leave. Excludes special bonuses, retroactive pay, and payments in kind. Industrial classifications are those described in the "Standard Industrial Classification Manual-1972 Revision." [b] Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; instruments and related products; miscellaneous manufacturing. [c] Includes food and kindred products; tobacco manufactures; textile mill products; apparel and other textile products; paper and allied products; printing and publishing; chemicals and allied products; petroleum and coal products; rubber and misc. plastics products; leather and leather products. [d] Money payments only, tips not included. [e] Low due to labor-management disputes during part of pay period. [f] Not comparable to previous estimates.

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Technical Notes

Civilian Labor Force Estimates

Civilian Labor Force. Estimated number of persons 16 years of age and over, employed or unemployed during week including 12th of month, distributed by place of residence.

Total Employed. Includes nonagricultural wage and salary workers, the self-employed, unpaid family workers, domestics, agricultural workers, and persons involved in labor disputes. Employment distributed by place of residence.

Total Unemployed. Estimated number of persons, by place of residence, who did not work during reference week and were looking for work, whether or not eligible for unemployment compensation. Includes those who did not work and were waiting to be called back to an old job or to report to a new job.

Nonagricultural Wage and Salary Employment

Collection. Nonagricultural wage and salary employment as well as hours and earnings estimates based on monthly reports from sample of employers. Under cooperative arrangement with U.S. Bureau of Labor Statistics, Labor Market Information Division of Ohio Bureau of Employment Services mails, edits, and processes Ohio reports, which are subsequently incorporated in national data.

Industrial Classification. Employer establishments classified by industry on basis of their principal product or service. The *Standard Industrial Classification Manual* (U.S. Office of Management and Budget, Washington, D.C., 1972, amended 1977) used for classification.

Coverage. Monthly reports on employment and (for most industries) payroll and hours obtained from approximately 10,000 Ohio employers.

Coverage of Ohio Nonagricultural
Employment Sample and a Measure of Error

Industry Division	Approximate Percentage Covered by Sample	RMSE
Total	42	.2
Manufacturing	57	.3
Nonmanufacturing	38	.2
Mining	52	1.4
Construction	19	1.4
Transportation and Public Utilities	45	.3
Wholesale Trade	22	.4
Retail Trade	21	.4
Finance, Insurance, and Real Estate	43	.3
Services	34	.3
Government	71	.2

Measure of Error. Reliability of nonagricultural wage and salary employment estimates may be affected by inadequate sample and response errors, industry code changes, or changes in the quality of benchmark data. The measure of reliability reported above is the root-mean-square error (RMSE), based on 36-month average differences in trend between final estimates and benchmark data. This experience indicates that monthly changes in total nonagricultural wage and salary employment estimates can be expected to vary no more than .2 percent from the actual change.

Nonagricultural Employment. Persons who worked during, or received pay for, any part of pay periods which include 12th of month, distributed by place of employment. Includes persons on paid sick leave, paid holiday, or paid vacation. Excluded are persons laid off, on strike, or on unpaid vacation during entire reporting period. Proprietors, the self-employed, unpaid family workers, farm workers, and domestic workers also excluded. Government employment covers only civilian employees. Full-time teachers considered employed during the summer vacation period, whether or not paid in those months.

Estimating Method. Total employment is estimated from the employment of establishments reporting for two consecutive months, as follows:

$$\underset{\text{(current month)}}{\text{Total Employment}} = \underset{\text{(previous month)}}{\text{Total Employment}} \times \frac{\text{Sample Employment (current month)}}{\text{Sample Employment (previous month)}}$$

Benchmark Data. Employment estimates compared annually with complete count of employment, by industry. Where revisions necessary, monthly estimates adjusted to new benchmark. Following revisions to new benchmark, industry data projected forward to current month by use of sample trends. Basic source of benchmark information is tabulations of employment data, by industry and area, compiled from contribution reports of employers covered under Ohio Unemployment Compensation Law. Data are based on March 1988 benchmark. Employment data for 1988 will be revised at the next benchmark.

Seasonally Adjusted Estimates

Seasonal Adjustment. To facilitate interpretation of underlying economic trends, Division-level Nonagricultural Wage and Salary Employment series are presented with short-term effects of seasonal patterns removed.

Hours and Earnings

Method of Computing Averages. Average hours computed by dividing total production worker hours worked during one week (the seven-day periods which include 12th of month) by number of production workers reported for such week. Average hourly earnings computed by dividing total production worker payroll for one week by total production worker hours for week. Average weekly earnings derived by multiplying average hourly earnings by average weekly hours.

Definitions. Definitions of production or similar workers, payroll, and hours—from which average hours and earnings data are derived—follow:

Production Workers. Includes working supervisors and all nonsupervisory workers (including group leaders and trainees) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping, maintenance, repair, janitorial and guard services, product development, auxiliary production for plant's own use (such as power plant), and record keeping and other services closely associated with production operations.

Nonsupervisory Workers. Includes employees (not above working supervisory level) such as office and clerical workers, repairers, salespersons, operators, drivers, attendants, service employees, line installers, laborers, accountants, janitors, guards, and other employees whose services are closely associated with those of occupations listed.

Payroll. Represents payroll for full- and part-time production, construction, or nonsupervisory workers who received pay for any part of pay periods which include 12th of month. Payroll is reported before deductions for Social Security, group insurance, withholding tax, bonds, and union dues; also includes pay for overtime, holidays, vacations, and sick leave paid directly by the firm. Bonuses (unless earned and paid regularly each pay period), tips, pay not earned in pay period reported (such as retroactive pay), and value of free rent, fuel, meals, or other payments in kind, excluded.

Hours. Represents hours worked or paid for, during pay periods which include 12th of month, for production, construction, or nonsupervisory workers. Hours include time paid for holidays and vacations, and for sick leave when pay received directly from firm.

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